



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 104488

TO: Karen A Lacourciere
Location: CM1-11D09/11E12
Art Unit: 1635
Wednesday, September 24, 2003
Case Serial Number: 09/898556

From: Paul Schulwitz
Location: Biotech-Chem Library
CM1-6B06
Phone: 305-1954

paul.schulwitz@uspto.gov

Search Notes

Examiner Lacourciere,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz
Technical Information Specialist
STIC Biotech/Chem Library
(703)305-1954



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OM nucleic - nucleic search, using sw model

Run on: September 24, 2003, 10:52:38 ; Search time 0.001 Seconds
(without alignments)
2.840 Million cell updates/sec

Title: us-09-898-556a-3
Perfect score: 20
Sequence: 1 gctcaataaattcttct 20

Scoring table: IDENTITY_NTCT
Gapop 10.0 , Gapext 0.5

Searched: 7 seqs, 71 residues

Total number of hits satisfying chosen parameters: 14

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /home/spaul/0903/laacourciere556/rni/09305408-11.seq:*
2: /home/spaul/0903/laacourciere556/rni/0838353-737.seq:*
3: /home/spaul/0903/laacourciere556/rni/08173489-73.seq:*
4: /home/spaul/0903/laacourciere556/rni/08440787-65.seq:*
5: /home/spaul/0903/laacourciere556/rni/0838353-738.seq:*
6: /home/spaul/0903/laacourciere556/rni/08488551-738.seq:*
7: /home/spaul/0903/laacourciere556/rni/08488551-737.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	9	45.0	10	1	us-09-305-408-11
2	9	45.0	10	2	us-08-388-353-737
3	9	45.0	10	4	us-08-440-787a-65
4	9	45.0	10	5	us-08-388-353-738
5	9	45.0	10	6	us-08-488-551b-738
6	9	45.0	10	7	us-08-488-551b-737
7	9	45.0	11	3	us-08-173-489c-73
8	5.8	29.0	10	1	us-09-305-408-11
9	5.8	29.0	10	4	us-08-440-787a-65
10	5.4	27.0	11	3	us-08-173-489c-73
11	5.4	20.0	10	5	us-08-388-353-738
12	4	20.0	10	6	us-08-488-551b-738
13	3.4	17.0	10	2	us-08-388-353-737
14	3.4	17.0	10	7	us-08-488-551b-737

ALIGNMENTS

RESULT 1
us-09-305-408-11/c

Query Match 45.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2745 AAAATTCCTT 2753
Db 9 AAAATTCCTT 1

RESULT 2
us-08-388-353-737

Query Match 45.0%; Score 9; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATATA 2747
Db 2 CTCATATATA 10

RESULT 3
us-08-440-787a-65

Query Match 45.0%; Score 9; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2747 AATTCCTTTT 2755
Db 1 AATTCCTTTT 9

RESULT 4
us-08-388-353-738

Query Match 45.0%; Score 9; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATATA 2747
Db 1 CTCATATATA 9

RESULT 5
us-08-488-551b-738

Query Match 45.0%; Score 9; DB 6; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATATA 2747
Db 1 CTCATATATA 9

RESULT 6
us-08-488-551b-737

Query Match 45.0%; Score 9; DB 7; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATATA 2747
Db 2 CTCATATATA 10

RESULT 7
us-08-173-489c-73/c

Query Match 45.0%; Score 9; DB 3; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2749 TTCCTTTTCT 2757

Db 9 TTTCTTTCT 1

RESULT 8
us-09-305-408-11

Query Match 29.0%; Score 5.8; DB 1; Length 10;
Best Local Similarity 77.8%; Pred. No. 8.6;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2745 AAAATCTT 2753
| | | | |
Db 2 AGAATTTT 10

RESULT 9
us-08-440-787a-65/c

Query Match 29.0%; Score 5.8; DB 4; Length 10;
Best Local Similarity 77.8%; Pred. No. 8.6;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2742 AATAAATT 2750
| | | | |
Db 9 AAAAGATT 1

RESULT 10
us-08-173-489c-73

Query Match 27.0%; Score 5.4; DB 3; Length 11;
Best Local Similarity 85.7%; Pred. No. 8.9;
Matches 6; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATAAA 2748
| | | | |
Db 5 AAGAAAA 11

RESULT 11
us-08-388-353-738/c

Query Match 20.0%; Score 4; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2751 CTTT 2754
| | | |
Db 10 CTTT 7

RESULT 12
us-08-488-551b-738/c

Query Match 20.0%; Score 4; DB 6; Length 10;
Best Local Similarity 100.0%; Pred. No. 13;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2751 CTTT 2754
| | | |
Db 10 CTTT 7

RESULT 13
us-08-388-353-737/c

Query Match 17.0%; Score 3.4; DB 2; Length 10;
Best Local Similarity 80.0%; Pred. No. 14;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2753 TTTCT 2757
| | | |

Db 10 TTTAT 6

RESULT 14
us-08-488-551b-737/c

Query Match 17.0%; Score 3.4; DB 7; Length 10;
Best Local Similarity 80.0%; Pred. No. 14;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2753 TTTCT 2757
| | | |
Db 10 TTTAT 6

Search completed: September 24, 2003, 10:52:38
Job time : 0.001 secs

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OM nucleic - nucleic search, using sw model

Run on: September 24, 2003, 11:23:23 ; Search time 1 Seconds
(without alignments)
2.062 Million cell updates/sec

Title: us-09-898-556a-3

Perfect score: 20

Sequence: 1 gctcaataaattcttct 20

Scoring table: IDENTITY_MUC

Gapop 10.0 , Gapext 0.5

Searched: 2749 seqs, 51545 residues

Total number of hits satisfying chosen parameters: 5290

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :
1: /home/spaul/0903/laacourclere556/rnpb/US09898556A.seq:*
2: /home/spaul/0903/laacourclere556/rnpb/US1023765.seq:*
3: /home/spaul/0903/laacourclere556/rnpb/US10329465.seq:*
4: /home/spaul/0903/laacourclere556/rnpb/US10033145.seq:*

SUMMARIES

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	1	US-09-898-556A-81
2	9.2	46.0	38	3	US-10-329-465-284
3	9	45.0	10	2	US-10-329-765-268
4	9	45.0	10	3	US-10-329-465-80
5	9	45.0	10	4	US-10-329-465-207
6	9	45.0	38	3	US-10-329-465-263
7	8.6	43.0	46	3	US-10-329-465-263
8	8.6	43.0	46	3	US-10-329-465-263
9	8.4	42.0	10	4	US-10-033-145-106
10	8.4	42.0	10	4	US-10-033-145-1634
11	8.2	41.0	44	3	US-10-329-465-294
12	8	40.0	10	4	US-10-033-145-137
13	8	40.0	10	4	US-10-033-145-1047
14	8	40.0	10	4	US-10-033-145-1063
15	8	40.0	10	4	US-10-033-145-1525
16	8	40.0	10	4	US-10-033-145-1804
17	8	40.0	10	4	US-10-033-145-2042
18	7.8	39.0	47	3	US-10-329-465-297
19	7.6	38.0	20	1	US-09-898-556A-81
20	7.6	38.0	48	3	US-10-329-465-251
21	7.4	37.0	10	3	US-10-329-465-41
22	7.4	37.0	10	3	US-10-329-465-78
23	7.4	37.0	10	3	US-10-329-465-113
24	7.4	37.0	10	4	US-10-033-145-189
25	7.4	37.0	10	4	US-10-033-145-327
26	7.4	37.0	10	4	US-10-033-145-337
27	7.4	37.0	10	4	US-10-033-145-866
28	7.4	37.0	10	4	US-10-033-145-1149
29	7.4	37.0	10	4	US-10-033-145-1596

c 30	7.4	37.0	10	4	US-10-033-145-1684	Sequence 1684, Ap
c 31	7.4	37.0	10	4	US-10-033-145-1690	Sequence 1690, Ap
c 32	7.4	37.0	10	4	US-10-033-145-2062	Sequence 2062, Ap
c 33	7.4	37.0	20	1	US-09-898-556A-53	Sequence 53, Appl
c 34	7.4	37.0	31	3	US-10-329-465-281	Sequence 281, Appl
c 35	7.4	37.0	47	3	US-10-329-465-297	Sequence 297, Appl
c 36	7.4	37.0	48	3	US-10-329-465-251	Sequence 251, Appl
c 37	7	35.0	10	2	US-10-329-765-250	Sequence 250, Appl
c 38	7	35.0	10	3	US-10-329-465-160	Sequence 160, Appl
c 39	7	35.0	10	4	US-10-033-145-186	Sequence 186, Appl
c 40	7	35.0	10	4	US-10-033-145-377	Sequence 377, Appl
c 41	7	35.0	10	4	US-10-033-145-436	Sequence 436, Appl
c 42	7	35.0	10	4	US-10-033-145-592	Sequence 592, Appl
c 43	7	35.0	10	4	US-10-033-145-848	Sequence 848, Appl
c 44	7	35.0	10	4	US-10-033-145-872	Sequence 872, Appl
c 45	7	35.0	10	4	US-10-033-145-964	Sequence 964, Appl

ALIGNMENTS

RESULT 1
US-09-898-556A-81/c
; Sequence 81, Application US/09898556A
; GENERAL INFORMATION:
; APPLICANT: C. Frank Bennett
; APPLICANT: Susan M. Freier
; TITLE OF INVENTION: ANTISENSE MODULATION OF HKR1 EXPRESSION
; FILE REFERENCE: RTS-0248
; CURRENT APPLICATION NUMBER: US/09/898,556A
; CURRENT FILING DATE: 2001-07-03
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 81
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-898-556A-81

Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.0014;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2738 GCTCATTAATTCCTTCT 2757
Db 20 GCTCATTAATTCCTTCT 1

RESULT 2
US-10-329-465-284
; Sequence 284, Application US/10329465
; GENERAL INFORMATION:
; APPLICANT: Wang et al.
; TITLE OF INVENTION: GENES ABNORMALLY EXPRESSED IN MYELOID LEUKEMIA CELLS WITH AN M
; FILE REFERENCE: 27373/37928A
; CURRENT APPLICATION NUMBER: US/10/329,465
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 60/343,826
; PRIOR FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 284
; LENGTH: 38
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-329-465-284

Query Match 46.0%; Score 9.2; DB 3; Length 38;
Best Local Similarity 78.6%; Pred. No. 39;

Matches 11; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2742 AATAAATTCCTTT 2755
||||| | | | |
DB 13 AATAAAGTTTAT 26

RESULT 3
US-10-223-765-268/c
; Sequence 268, Application US/10223765
; GENERAL INFORMATION:
; APPLICANT: Kim, Jin-Soo
; APPLICANT: Bae, Kwang-Hee
; APPLICANT: Park, Kyung-Soon
; APPLICANT: Kwon, Young Do
; APPLICANT: Ryu, Eun-Hyun
; APPLICANT: Hwang, Moon-Sun
; TITLE OF INVENTION: ZINC FINGER DOMAIN LIBRARIES
; FILE REFERENCE: 12279-005001
; CURRENT APPLICATION NUMBER: US/10/223,765
; CURRENT FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: 60/374,355
; PRIOR FILING DATE: 2002-04-22
; PRIOR APPLICATION NUMBER: 60/313,402
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 305
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 268
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetically generated oligonucleotide
US-10-223-765-268

Query Match 45.0%; Score 9; DB 2; Length 10;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2749 TTCCTTCT 2757
|||||
DB 9 TTCCTTCT 1

RESULT 4
US-10-329-465-80/c
; Sequence 80, Application US/10329465
; GENERAL INFORMATION:
; APPLICANT: Wang et al.
; TITLE OF INVENTION: GENES ABNORMALLY EXPRESSED IN MYELOID LEUKEMIA CELLS WITH AN ML-
; FILE REFERENCE: 27373/37928A
; CURRENT APPLICATION NUMBER: US/10/329,465
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 60/343,826
; PRIOR FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 80
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-329-465-80

Query Match 45.0%; Score 9; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2742 AATAAAT 2750
|||||
DB 9 AATAAAT 1

RESULT 5
US-10-033-145-207/c
; Sequence 207, Application US/10033145
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 207
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-207

Query Match 45.0%; Score 9; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2743 AATAAATTC 2751
|||||
DB 9 AATAAATTC 1

RESULT 6
US-10-329-465-284/c
; Sequence 284, Application US/10329465
; GENERAL INFORMATION:
; APPLICANT: Wang et al.
; TITLE OF INVENTION: GENES ABNORMALLY EXPRESSED IN MYELOID LEUKEMIA CELLS WITH AN M
; FILE REFERENCE: 27373/37928A
; CURRENT APPLICATION NUMBER: US/10/329,465
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 60/343,826
; PRIOR FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 284
; LENGTH: 38
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-329-465-284

Query Match 45.0%; Score 9; DB 3; Length 38;
Best Local Similarity 70.6%; Pred. No. 47;
Matches 12; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 2740 TCAATAAATCTTTC 2756
||||| | | | |
DB 28 TCAATAAATCTTATTC 12

RESULT 7
US-10-329-465-263
; Sequence 263, Application US/10329465
; GENERAL INFORMATION:
; APPLICANT: Wang et al.
; TITLE OF INVENTION: GENES ABNORMALLY EXPRESSED IN MYELOID LEUKEMIA CELLS WITH AN M
; FILE REFERENCE: 27373/37928A
; CURRENT APPLICATION NUMBER: US/10/329,465
; CURRENT FILING DATE: 2002-12-23

;; PRIOR APPLICATION NUMBER: US 60/343,826
;; PRIOR FILING DATE: 2001-12-27
;; NUMBER OF SEQ ID NOS: 315
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 263
;; LENGTH: 46
;; TYPE: DNA
;; ORGANISM: Artificial sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic oligonucleotide
US-10-329-465-263

Query Match 43.0%; Score 8.6; DB 3; Length 46;
Best Local Similarity 73.3%; Pred. No. 72;
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2740 TCATATAAATCTTT 2754
|||||
Db 18 TCAAACTTTCTTT 32

RESULT 8
US-10-329-465-263/C
; Sequence 263, Application US/10329465
; GENERAL INFORMATION:
; APPLICANT: Wang et al.
; TITLE OF INVENTION: GENES ABNORMALLY EXPRESSED IN MYELOID LEUKEMIA CELLS WITH AN MLL-
; FILE REFERENCE: 27373/37928A
; CURRENT APPLICATION NUMBER: US/10/329,465
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 60/343,826
; PRIOR FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 263
; LENGTH: 46
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-329-465-263

Query Match 43.0%; Score 8.6; DB 3; Length 46;
Best Local Similarity 73.3%; Pred. No. 72;
Matches 11; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2739 CTCATATAAATCTT 2753
|||||
Db 34 CTAAGAAAAAGTTT 20

RESULT 9
US-10-033-145-106
; Sequence 106, Application US/10033145
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 106
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-106

Query Match 42.0%; Score 8.4; DB 4; Length 10;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2746 AATTCCTTT 2755
|||||
Db 1 AATTCCTTT 10

RESULT 10
US-10-033-145-1634
; Sequence 1634, Application US/10033145
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1634
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-1634

Query Match 42.0%; Score 8.4; DB 4; Length 10;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATATAA 2748
|||||
Db 1 CTCATAAAAA 10

RESULT 11
US-10-329-465-294
; Sequence 294, Application US/10329465
; GENERAL INFORMATION:
; APPLICANT: Wang et al.
; TITLE OF INVENTION: GENES ABNORMALLY EXPRESSED IN MYELOID LEUKEMIA CELLS WITH AN M
; FILE REFERENCE: 27373/37928A
; CURRENT APPLICATION NUMBER: US/10/329,465
; CURRENT FILING DATE: 2002-12-23
; PRIOR APPLICATION NUMBER: US 60/343,826
; PRIOR FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 294
; LENGTH: 44
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-329-465-294

Query Match 41.0%; Score 8.2; DB 3; Length 44;
Best Local Similarity 76.9%; Pred. No. 1e+02;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2744 TAAATCTTTTC 2756
|||||
Db 6 TTAATGCAATTC 18

RESULT 12
US-10-033-145-137
; Sequence 137, Application US/10033145

```

; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 137
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-137

Query Match
Best Local Similarity 40.0%; Score 8; DB 4; Length 10;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 TCAATATA 2747
DB 1 TCAATATA 8

RESULT 13
US-10-033-145-1047/C
; Sequence 1047, Application US/10033145
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1047
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-1047

Query Match
Best Local Similarity 40.0%; Score 8; DB 4; Length 10;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCAATAA 2746
DB 9 CTCAATAA 2

RESULT 14
US-10-033-145-1063/C
; Sequence 1063, Application US/10033145
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1063

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; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-033-145-1063

Query Match
Best Local Similarity 40.0%; Score 8; DB 4; Length 10;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2746 AAATCTT 2753
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RESULT 15
US-10-033-145-1525
; Sequence 1525, Application US/10033145
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; PRIOR FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1525
; LENGTH: 10
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; ORGANISM: Homo sapiens
US-10-033-145-1525

Query Match
Best Local Similarity 40.0%; Score 8; DB 4; Length 10;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 TCAATATA 2747
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Search completed: September 24, 2003, 11:23:24
Job time : 1 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 17, 2003, 14:42:40 ; Search time 0.001 Seconds
(without alignments)
203.160 Million cell updates/sec

Title: us-09-898-556a-3
Perfect score: 20
Sequence: 1 gctcaataaattctttct 20

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 0.5

Searched: 405 segs, 5079 residues

Total number of hits satisfying chosen parameters: 810

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 405 summaries

Database: 80plusrnq.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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258	10.4	52.0	13	1	abf40388	TOIG of: abf4038	331	10.4	52.0	13	1	abh67093	TOIG of: abh6709
C 259	10.4	52.0	13	1	abf40389	TOIG of: abf4038	C 332	10	50.0	10	1	aaef3542	TOIG of: aaef3542
C 260	10.4	52.0	13	1	abf43612	TOIG of: abf4361	C 333	10	50.0	10	1	aaef3573	TOIG of: aaef3573
C 261	10.4	52.0	13	1	abf43613	TOIG of: abf4361	C 334	10	50.0	10	1	aaef3573	TOIG of: aaef3573
C 262	10.4	52.0	13	1	abf44456	TOIG of: abf4445	C 335	10	50.0	10	1	aaef4051	TOIG of: aaef4051
C 263	10.4	52.0	13	1	abf44457	TOIG of: abf4445	336	10	50.0	10	1	aaef4051	TOIG of: aaef4051
C 265	10.4	52.0	13	1	abf53075	TOIG of: abf5307	337	10	50.0	10	1	aaef4051	TOIG of: aaef4051
C 266	10.4	52.0	13	1	abf53076	TOIG of: abf5307	338	10	50.0	10	1	aaef4051	TOIG of: aaef4051
C 267	10.4	52.0	13	1	abf62044	TOIG of: abf6204	C 339	10	50.0	11	1	abv62284	TOIG of: abv62284
C 268	10.4	52.0	13	1	abf62045	TOIG of: abf6204	C 340	10	50.0	12	1	abv69705	TOIG of: abv69705
C 269	10.4	52.0	13	1	abf68732	TOIG of: abf6873	C 341	10	50.0	12	1	abh68437	TOIG of: abh68437
C 270	10.4	52.0	13	1	abf68733	TOIG of: abf6873	342	10	50.0	12	1	abh68832	TOIG of: abh68832
C 271	10.4	52.0	13	1	abf72074	TOIG of: abf7207	C 343	10	50.0	12	1	abh69536	TOIG of: abh69536
C 272	10.4	52.0	13	1	abf72075	TOIG of: abf7207	344	10	50.0	12	1	abh70144	TOIG of: abh70144
C 273	10.4	52.0	13	1	abf73558	TOIG of: abf7355	C 345	10	50.0	12	1	abh72223	TOIG of: abh72223
C 274	10.4	52.0	13	1	abf73559	TOIG of: abf7355	C 346	10	50.0	12	1	abh72223	TOIG of: abh72223
C 275	10.4	52.0	13	1	abf76506	TOIG of: abf7650	C 347	10	50.0	12	1	abh74541	TOIG of: abh74541
C 276	10.4	52.0	13	1	abf76507	TOIG of: abf7650	C 348	10	50.0	12	1	abh75754	TOIG of: abh75754
C 277	10.4	52.0	13	1	abf81158	TOIG of: abf8115	C 349	10	50.0	12	1	abh79804	TOIG of: abh79804
C 278	10.4	52.0	13	1	abf81159	TOIG of: abf8115	C 350	10	50.0	12	1	abh81738	TOIG of: abh81738
C 279	10.4	52.0	13	1	abf85172	TOIG of: abf8517	C 351	10	50.0	12	1	abh82009	TOIG of: abh82009
C 280	10.4	52.0	13	1	abf85173	TOIG of: abf8517	C 352	10	50.0	12	1	abh82564	TOIG of: abh82564
C 281	10.4	52.0	13	1	abf89598	TOIG of: abf8959	C 353	10	50.0	12	1	abh83730	TOIG of: abh83730
C 282	10.4	52.0	13	1	abf89599	TOIG of: abf8959	C 354	10	50.0	12	1	abh84268	TOIG of: abh84268
C 283	10.4	52.0	13	1	abf93180	TOIG of: abf9318	C 355	10	50.0	12	1	abh84269	TOIG of: abh84269
C 284	10.4	52.0	13	1	abf93181	TOIG of: abf9318	C 356	10	50.0	12	1	abh89678	TOIG of: abh89678
C 285	10.4	52.0	13	1	abf99486	TOIG of: abf9948	C 357	10	50.0	12	1	abh92038	TOIG of: abh92038
286	10.4	52.0	13	1	abf99487	TOIG of: abf9948	358	10	50.0	12	1	abh92050	TOIG of: abh92050
C 287	10.4	52.0	13	1	abh01486	TOIG of: abh0148	C 359	10	50.0	12	1	abh93032	TOIG of: abh93032
C 288	10.4	52.0	13	1	abh01487	TOIG of: abh0148	C 360	10	50.0	12	1	abh94141	TOIG of: abh94141
C 289	10.4	52.0	13	1	abh01819	TOIG of: abh0181	C 361	10	50.0	12	1	abh99102	TOIG of: abh99102
C 290	10.4	52.0	13	1	abh01886	TOIG of: abh0188	C 362	10	50.0	12	1	abf02555	TOIG of: abf02555
C 291	10.4	52.0	13	1	abh01887	TOIG of: abh0188	C 363	10	50.0	12	1	abf03540	TOIG of: abf03540
C 292	10.4	52.0	13	1	abh07922	TOIG of: abh0792	C 364	10	50.0	12	1	abf06132	TOIG of: abf06132
C 293	10.4	52.0	13	1	abh07923	TOIG of: abh0792	C 365	10	50.0	12	1	abf06225	TOIG of: abf06225
C 294	10.4	52.0	13	1	abh28336	TOIG of: abh2833	C 366	10	50.0	12	1	abf08337	TOIG of: abf08337
C 295	10.4	52.0	13	1	abh28337	TOIG of: abh2833	C 367	10	50.0	12	1	abf11210	TOIG of: abf11210
C 296	10.4	52.0	13	1	abh28338	TOIG of: abh2833	C 368	10	50.0	12	1	abf12839	TOIG of: abf12839
C 297	10.4	52.0	13	1	abh28381	TOIG of: abh2838	C 369	10	50.0	12	1	abf16006	TOIG of: abf16006
C 298	10.4	52.0	13	1	abh28386	TOIG of: abh2838	C 370	10	50.0	12	1	abf12087	TOIG of: abf12087
C 299	10.4	52.0	13	1	abh28387	TOIG of: abh2838	C 371	10	50.0	12	1	abf12091	TOIG of: abf12091
C 300	10.4	52.0	13	1	abh31186	TOIG of: abh3118	C 372	10	50.0	12	1	abf12187	TOIG of: abf12187
C 301	10.4	52.0	13	1	abh31187	TOIG of: abh3118	C 373	10	50.0	12	1	abf12190	TOIG of: abf12190
C 302	10.4	52.0	13	1	abh31188	TOIG of: abh3118	C 374	10	50.0	12	1	abf12233	TOIG of: abf12233
C 303	10.4	52.0	13	1	abh31189	TOIG of: abh3118	375	10	50.0	12	1	abf12246	TOIG of: abf12246
C 304	10.4	52.0	13	1	abh32758	TOIG of: abh3275	376	10	50.0	12	1	abf12306	TOIG of: abf12306
C 305	10.4	52.0	13	1	abh32759	TOIG of: abh3275	377	10	50.0	12	1	abf12700	TOIG of: abf12700
C 306	10.4	52.0	13	1	abh34308	TOIG of: abh3430	378	10	50.0	12	1	abf16771	TOIG of: abf16771
C 307	10.4	52.0	13	1	abh34309	TOIG of: abh3430	379	10	50.0	12	1	abf13833	TOIG of: abf13833
C 308	10.4	52.0	13	1	abh34310	TOIG of: abh3430	C 380	10	50.0	12	1	abf13970	TOIG of: abf13970
C 309	10.4	52.0	13	1	abh39196	TOIG of: abh3919	C 381	10	50.0	12	1	abf13980	TOIG of: abf13980
C 310	10.4	52.0	13	1	abh40460	TOIG of: abh4046	C 382	10	50.0	12	1	abf14562	TOIG of: abf14562
C 311	10.4	52.0	13	1	abh40461	TOIG of: abh4046	C 383	10	50.0	12	1	abf14562	TOIG of: abf14562
C 312	10.4	52.0	13	1	abh45726	TOIG of: abh4572	C 384	10	50.0	12	1	abf14812	TOIG of: abf14812
C 313	10.4	52.0	13	1	abh45727	TOIG of: abh4572	C 385	10	50.0	12	1	abf15240	TOIG of: abf15240
C 314	10.4	52.0	13	1	abh46948	TOIG of: abh4694	C 386	10	50.0	12	1	abf15297	TOIG of: abf15297
C 315	10.4	52.0	13	1	abh46949	TOIG of: abh4694	C 387	10	50.0	12	1	abf15666	TOIG of: abf15666
C 316	10.4	52.0	13	1	abh47888	TOIG of: abh4788	C 388	10	50.0	12	1	abf15693	TOIG of: abf15693
C 317	10.4	52.0	13	1	abh47889	TOIG of: abh4788	C 389	10	50.0	12	1	abf15737	TOIG of: abf15737
C 318	10.4	52.0	13	1	abh50694	TOIG of: abh5069	390	10	50.0	12	1	abf15817	TOIG of: abf15817
C 319	10.4	52.0	13	1	abh50695	TOIG of: abh5069	391	10	50.0	12	1	abf15971	TOIG of: abf15971
C 320	10.4	52.0	13	1	abh50714	TOIG of: abh5071	392	10	50.0	12	1	abf16253	TOIG of: abf16253
C 321	10.4	52.0	13	1	abh50715	TOIG of: abh5071	C 393	10	50.0	12	1	abf16254	TOIG of: abf16254
C 322	10.4	52.0	13	1	abh52062	TOIG of: abh5206	394	10	50.0	12	1	abf16571	TOIG of: abf16571
C 323	10.4	52.0	13	1	abh52063	TOIG of: abh5206	395	10	50.0	12	1	abf16571	TOIG of: abf16571
C 324	10.4	52.0	13	1	abh55914	TOIG of: abh5591	C 396	10	50.0	12	1	abf16712	TOIG of: abf16712
C 325	10.4	52.0	13	1	abh55917	TOIG of: abh5591	397	10	50.0	12	1	abf17053	TOIG of: abf17053
						TOIG of: abh5591	398	10	50.0	12	1	abf17235	TOIG of: abf17235

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399      10  50.0  12  1  ab175344  TOIG of: ab17534
c 400      10  50.0  12  1  ab175314  TOIG of: ab17531
c 401      10  50.0  12  1  ab178489  TOIG of: ab17848
c 402      10  50.0  12  1  ab179494  TOIG of: ab17949
c 403      10  50.0  12  1  ab179687  TOIG of: ab17968
c 404      10  50.0  12  1  ab180367  TOIG of: ab18036
c 405      10  50.0  12  1  ab181874  TOIG of: ab18187

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ALIGNMENTS

```

RESULT 1
abz71053/c
  TOIG of: abz71053  check: 5423  from: 1  to: 20
  ID  ABZ71053  standard; DNA; 20 BP.
  AC  ABZ71053;
  DT  28-APR-2003  (first entry)
  DE  Human HKR1 phosphorothioate antisense oligonucleotide SEQ ID NO:81.
  XX
  KM  Human: HKR1, cytosolic; HKR1 inhibitor; hyperproliferative disorder;
  KW  cancer; antisense oligonucleotide; 2'-O-methoxyethyl; 2'-MOE; control;
  XX  phosphorothioate; ss.
  OS  Homo sapiens.
  XX
  Key  Location/Qualifiers
  FT  modified_base  1..28
  FT  /*tag= a
  FT  /mod_base= OTHER
  FT  /note= "phosphorothioate linkages"
  FT  modified_base  1..5
  FT  /*tag= b
  FT  /mod_base= OTHER
  FT  /note= "2'-O-methoxyethyl (2'-MOE) nucleotides"
  FT  modified_base  16..20
  FT  /*tag= c
  FT  /mod_base= OTHER
  FT  /note= "2'-O-methoxyethyl (2'-MOE) nucleotides"
  XX
  PN  WO2003004513-A1.
  XX
  PD  16-JAN-2003.
  XX
  PE  02-JUL-2002; 2002MO-US21090.
  XX
  PR  03-JUL-2001; 2001US-0898556.
  XX
  PA  (ISIS-) ISIS PHARM INC.
  XX
  PI  Bennett FC, Freiler SM;
  DR  WPI; 2003-210336/20.
  XX
  PT  New compounds, particularly antisense oligonucleotides targeted to a
  PT  nucleic acid encoding HKR1, useful for treating a disease/condition
  PT  associated with HKR1, such as hyperproliferative disorder, e.g. lung,
  PT  brain or breast cancer -
  XX
  PS  Claim 3; Page 73; 105pp; English.
  CC  The present invention describes a compound 8-50 nucleobases in length
  CC  targeted to, and which specifically hybridizes with a nucleic acid
  CC  molecule encoding HKR1, and inhibits the expression of HKR1. Also
  CC  described: (1) a compound 8-50 nucleobases in length that specifically
  CC  hybridizes with at least an 8-nucleobase portion of an active site on a
  CC  nucleic acid molecule encoding HKR1; (2) a composition comprising the
  CC  compound and a carrier or diluent; (3) a method for inhibiting the
  CC  expression of HKR1 in cells or tissues by contacting the cells or tissues

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; CC  with the compound so that expression of HKR1 is inhibited; and (4) a
; CC  method of treating an animal having a disease or condition associated
; CC  with HKR1 by administering to the animal a therapeutic or prophylactic
; CC  amount of the compound so that expression of HKR1 is inhibited. HKR1
; CC  antisense oligonucleotides have cytostatic activities and can be used as
; CC  HKR1 inhibitors. The compound, composition and methods are useful for
; CC  treating a disease or condition associated with HKR1, such as a
; CC  hyperproliferative disorder, e.g. lung, brain or breast cancer, by
; CC  inhibiting the expression of HKR1. They are also useful in research and
; CC  diagnostics for modulating the expression of HKR1. The present sequence
; CC  represents a human HKR1 chimeric phosphorothioate oligonucleotide having
; CC  2'-O-methoxyethyl (2'-MOE) wings and a deoxy gap, which is an antisense
; CC  oligonucleotide used in the inhibition of human HKR1 in an example from
; CC  the present invention.
; SQ  Sequence 20 BP; 9 A; 1 C; 4 G; 6 T; 0 other;
; ABZ71053  Length: 20  September 17, 2003 14:26  Type: N  Check: 5423  ..
abz71053

Query Match      100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY  2738  GCTCAATTAATAATCTTTCT 2757
DB  20  GCTCAATTAATAATCTTTCT 1

RESULT 2
abz74378
  TOIG of: abz74378  check: 5907  from: 1  to: 12
  ID  ABZ74378  standard; DNA; 12 BP.
  AC  ABZ74378;
  DT  22-FEB-2002  (first entry)
  DE  Oligonucleotide primer SEQ ID NO 274363 for detecting SNP TSC003524.
  XX
  KM  SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
  KW  peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
  KW  central nervous system; gastrointestinal; respiratory; immune; metabolic.
  XX
  OS  Homo sapiens.
  XX
  PN  WO200177384-A2.
  XX
  PD  18-OCT-2001.
  XX
  PE  06-APR-2001; 2001MO-IB00713.
  XX
  PR  07-APR-2000; 2000DB-1019173.
  XX
  PA  (EPIC-) EPIDENOMICS AG.
  PI  Olek A, Piepenbrock C, Berlin K;
  DR  WPI; 2001-657177/5.
  XX
  PT  Set of oligonucleotides, useful for diagnosis and cell typing, is
  PT  designed to detect single nucleotide polymorphisms and cytosine
  PT  methylation status -
  XX
  PS  Claim 1; SEQ ID 274363; 29pp + Sequence Listing; German.
  CC  This invention describes novel oligonucleotide primers or peptide nucleic
  CC  acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
  CC  and cytosine methylation status in chemically pretreated genomic DNA. The
  CC  oligonucleotides are used for diagnosis and/or prognosis of cancer and a
  CC  range of diseases including immune system, gastrointestinal, respiratory,
  CC  central nervous system, cardiovascular and metabolic disorders. The

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OY 2744 TAAATCTTTT 2755
|||||
DB 1 TAAATCTTTT 12

RESULT 5

ab152090/c

TOIG of: ab152090 check: 5751 from: 1 to: 12

ID AB152090 standard; DNA; 12 BP.

AC AB152090;

DT 22-FEB-2002 (first entry)

Oligonucleotide primer SEQ ID NO 352063 for detecting SNP TSC0007262.

SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

PN WO0017384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PS WPI; 2001-657177/75.

PT Set of oligonucleotides useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status

PS Claim 1; SEQ ID 352063; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The

CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

CC range of diseases including immune system, gastrointestinal, respiratory,

CC central nervous system, cardiovascular and metabolic disorders. The

CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC AB100010-AB182073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 12 BP; 7 A; 0 C; 2 G; 3 T; 0 other;

AB152090 Length: 12 September 17, 2003 14:26 Type: N Check: 5751 ..

Query Match 60.0%; Score 12; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 50;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2746 AATCTTTTCT 2757
|||||

DB 12 AATCTTTTCT 1

RESULT 6

ab47890/c

TOIG of: ab47890 check: 6813 from: 1 to: 13

ID AB47890 standard; DNA; 13 BP.

AC AB47890;

DT 22-FEB-2002 (first entry)

Oligonucleotide SEQ ID NO 247867 for detecting SNP TSC0060578.

SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

PN WO0017384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PS WPI; 2001-657177/75.

PT Set of oligonucleotides useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status

PS Claim 1; SEQ ID 247867; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The

CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

CC range of diseases including immune system, gastrointestinal, respiratory,

CC central nervous system, cardiovascular and metabolic disorders. The

CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC AB100010-AB182073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;

AB47890 Length: 13 September 17, 2003 14:26 Type: N Check: 6813 ..

Query Match 60.0%; Score 12; DB 1; Length 13;

Best Local Similarity 100.0%; Pred. No. 54;

Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2743 ATAAATCTTTT 2754
|||||

DB 12 ATAAATCTTTT 1

RESULT 7

ab47891/c

TOIG of: ab47891 check: 7018 from: 1 to: 13

ID AB47891 standard; DNA; 13 BP.

AC AB47891;

DT 22-FEB-2002 (first entry)

Oligonucleotide SEQ ID NO 247868 for detecting SNP TSC0060578.

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; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; PD peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 247868; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other;
; ABH47891 Length: 13 September 17, 2003 14:26 Type: N Check: 7018 ..
; abh47891

Query Match 60.0%; Score 12; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2743 ATAAATCTTTC 2754
Db 2 ATAAATCTTTC 13

RESULT 8
abf56854/c
; TOIG of: abf56854 check: 6927 from: 1 to: 13
; ID ABF56854 standard; DNA; 13 BP.
; AC ABF56854;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 156851 for detecting SNP TSC0039548.
; PN
; OS
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS
; PN WO200177384-A2.

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; XX 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; KW 07-APR-2000; 2000DE-1019173.
; XX (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 156851; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 6 A; 0 C; 2 G; 4 T; 1 other;
; abf56854 Length: 13 September 17, 2003 14:26 Type: N Check: 6927 ..
; abf56854

Query Match 58.0%; Score 11.6; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 66;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2745 AAAATCTTTC 2756
Db 13 AAAATCTTTC 2

RESULT 9
abf56855
; TOIG of: abf56855 check: 6901 from: 1 to: 13
; ID ABF56855 standard; DNA; 13 BP.
; AC ABF56855;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 156852 for detecting SNP TSC0039548.
; PN
; OS
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PR 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; XX (EPIG-) EPIGENOMICS AG.
; PA

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; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 156852; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, AB000010-AB099989, AB000010-AB099989 and
; CC AB000010-AB099989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 2 C; 0 G; 6 T; 1 other;
;
; ABF56855 Length: 13 September 17, 2003 14:26 Type: N Check: 6901 ..
; abf56855

Query Match          58.0%; Score 11.6; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 66;
Matches 11; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      2745 AAAATCTCTTTC 2756
Db      1 RAAATCTCTTTC 12

RESULT 10
abc01120/c
; TOIG of: abc01120 check: 6884 from: 1 to: 13
;
; ID ABC01120 standard; DNA; 13 BP.
; XX
; AC ABC01180:
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 1111 for detecting SNP TSC0000375.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PT

```

```

; XX
; PS Claim 1; SEQ ID 1111; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, AB000010-AB099989, AB000010-AB099989 and
; CC AB000010-AB099989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 0 G; 5 T; 0 other;
;
; ABC01120 Length: 13 September 17, 2003 14:26 Type: N Check: 6884 ..
; abc01120

Query Match          57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2743 ATAAATCTCTT 2755
Db      13 ATAAATCTCTT 1

RESULT 11
abc01121
; TOIG of: abc01121 check: 7283 from: 1 to: 13
;
; ID ABC01121 standard; DNA; 13 BP.
; XX
; AC ABC01121:
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 1112 for detecting SNP TSC0000375.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PT
; PS Claim 1; SEQ ID 1112; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,

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CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcl_sequences.
CC
CC SQ Sequence 13 BP; 5 A; 0 C; 0 G; 8 T; 0 other;
; ABC01121 Length: 13 September 17, 2003 14:26 Type: N Check: 7283
; abc01121

Query Match
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATCTTTT 2755
Db 1 ATAAATCTTTT 13

RESULT 12
abc15488/C
; TOIG of: abc15488 check: 7142 from: 1 to: 13
; ID ABC15488 standard; DNA; 13 BP.
; AC ABC15488
; XX
; XX 20-FEB-2002 (first entry)
; DT
; XX
; XX Oligonucleotide SEQ ID NO 15495 for detecting SNP TSC0003434.
; DE
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIC-) EPICENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI; 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PT
; XX
; XX Claim 1; SEQ ID 15495; 29pp + Sequence Listing; German.
; PS
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX
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; SQ Sequence 13 BP; 6 A; 0 C; 1 G; 6 T; 0 other;
; ABC15488 Length: 13 September 17, 2003 14:26 Type: N Check: 7142
; abc15488

Query Match
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATCTTTT 2755
Db 13 ATAAATCTTTT 13

RESULT 13
abc15489
; TOIG of: abc15489 check: 7092 from: 1 to: 13
; ID ABC15489 standard; DNA; 13 BP.
; AC ABC15489;
; XX
; XX 20-FEB-2002 (first entry)
; DT
; XX
; XX Oligonucleotide SEQ ID NO 15496 for detecting SNP TSC0003434.
; DE
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIC-) EPICENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI; 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PT
; XX
; XX Claim 1; SEQ ID 15496; 29pp + Sequence Listing; German.
; PS
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX
; XX Sequence 13 BP; 6 A; 1 C; 0 G; 6 T; 0 other;
; SQ
; ABC15489 Length: 13 September 17, 2003 14:26 Type: N Check: 7092
; abc15489

Query Match
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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OY      2743 ATAAATCTTTT 2755
DB      1 AAAAAATCTTTT 13

RESULT 14
abc58642/c
TOIG of: abc58642 check: 6812 from: 1 to: 13
; ID ABC58642 standard; DNA; 13 BP.
; AC ABC58642;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 58659 for detecting SNP TSC0015719.
; SN SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; CC central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-1B00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS MPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PM methylation status -
; XX
; PS Claim 1; SEQ ID 58659; 29pp + Sequence listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABR00010-ABR99989 and
; CC ABR00010-ABR182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 other;
; ABC58642 Length: 13 September 17, 2003 14:26 Type: N Check: 6812 ..
abc58642

Query Match      57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      2744 TAAATCTTTT 2756
DB      13 TAAATCTTTATC 1

RESULT 15
abc58643
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```
TOIG of: abc58643 check: 6812 from: 1 to: 13
; ID ABC58643 standard; DNA; 13 BP.
; AC ABC58643;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 58660 for detecting SNP TSC0015719.
; SN SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; CC central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-1B00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS MPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PM methylation status -
; XX
; PS Claim 1; SEQ ID 58660; 29pp + Sequence listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABR00010-ABR99989 and
; CC ABR00010-ABR182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 2 C; 0 G; 6 T; 0 other;
; ABC58643 Length: 13 September 17, 2003 14:26 Type: N Check: 6812 ..
abc58643

Query Match      57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      2744 TAAATCTTTT 2756
DB      1 TAAATCTTTATC 13

RESULT 16
abc63706/c
TOIG of: abc63706 check: 7048 from: 1 to: 13
; ID ABC63706 standard; DNA; 13 BP.
; AC ABC63706;
; XX
; DT 21-FEB-2002 (first entry)
; XX
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; PA (EPiG-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; PT WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS
; PS Claim 1; SEQ ID 154667; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 0 C; 3 G; 4 T; 0 other;
; ABF54670 Length: 13 September 17, 2008 14:26 Type: N Check: 6861 ..
; abf54670

Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2745 AAAATTCCTTCT 2757
Db 13 AAAATTCCTTCT 1

RESULT 19
abf54671
; TOIG of: abf54671 check: 6944 from: 1 to: 13
; ID ABF54671 standard; DNA; 13 BP.
; XX
; AC ABF54671;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 154668 for detecting SNP TSC0009835.
; XX
; OS SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS
; PS WPI; 2001-657177/75.
; DR
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine

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; PT methylation status -
; XX
; PS Claim 1; SEQ ID 154668; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 3 C; 0 G; 6 T; 0 other;
; ABF54671 Length: 13 September 17, 2003 14:26 Type: N Check: 6944 ..
; abf54671

Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2745 AAAATTCCTTCT 2757
Db 1 AAAATTCCTTCT 13

RESULT 20
abf79610
; TOIG of: abf79610 check: 7169 from: 1 to: 13
; ID ABF79610 standard; DNA; 13 BP.
; XX
; AC ABF79610;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 179607 for detecting SNP TSC0005202.
; XX
; OS SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS
; PS WPI; 2001-657177/75.
; DR
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS
; PS Claim 1; SEQ ID 179607; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

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; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP: 6 A; 0 C; 0 G; 7 T; 0 other;
; ABF79610 Length: 13 September 17, 2003 14:26 Type: N Check: 7169 ..
; abf79610

Query Match
Best Local Similarity 57.0%; Score 11.4; DB 1; Length 13;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATFAAATTCCTT 2754
DB 1 AATFAAATTCCTT 13

RESULT 21
abf79611/c
; TOIG Of: abf79611 check: 7036 from: 1 to: 13
; ID ABF79611 standard; DNA; 13 BP.
; AC ABF79611;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 179608 for detecting SNP TSC0005202.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.

```

```

; XX
; SQ Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other;
; ABF79611 Length: 13 September 17, 2003 14:26 Type: N Check: 7036 ..
; abf79611

Query Match
Best Local Similarity 57.0%; Score 11.4; DB 1; Length 13;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATFAAATTCCTT 2754
DB 13 AATFAAATTCCTT 1

RESULT 22
abh15098/c
; TOIG Of: abh15098 check: 7208 from: 1 to: 13
; ID ABH15098 standard; DNA; 13 BP.
; AC ABH15098;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 215075 for detecting SNP TSC0007391.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 4 A; 0 C; 2 G; 7 T; 0 other;
; ABH15098 Length: 13 September 17, 2003 14:26 Type: N Check: 7208 ..
; abh15098

Query Match
Best Local Similarity 57.0%; Score 11.4; DB 1; Length 13;

```

Matches 12: Conservative 0: Mismatches 1: Indels 0: Gaps 0:

OY 2741 CAATAAATTCCTT 2753
 ||| |||||
 Db 13 CAAAAAATTCCTT 1

RESULT 23

abhl5099
 ; TOIG of: abhl5099 check: 6775 from: 1 to: 13

ABH15099 standard; DNA: 13 BP.

AC ABH15099;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 215076 for detecting SNP TSC0007391.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB00713.

XX 07-APR-2000; 2000DE-1019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

XX designed to detect single nucleotide polymorphisms and cytosine

XX methylation status -

XX Claim 1; SEQ ID 215076; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation.

XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

XX CC ABH00010-ABH82073 represent the oligomers described in the invention.

XX NOTE: The sequence data for this patent did not form part of the printed

XX specification, but was obtained in electronic format from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 7 A; 2 C; 0 G; 4 T; 0 other;

ABH15099 Length: 13 September 17, 2003 14:26 Type: N Check: 6775 ..

abhl5099

Query Match 57.0%; Score 11.4; DB 1; Length 13;

Best Local Similarity 92.3%; Pred. No. 74;

Matches 12: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2741 CAATAAATTCCTT 2753
 ||| |||||
 Db 1 CAAAAAATTCCTT 13

RESULT 24

abhl37606/C
 ; TOIG of: abhl37606 check: 7096 from: 1 to: 13

ABH37606 standard; DNA: 13 BP.

AC ABH37606;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 237583 for detecting SNP TSC0057940.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB00713.

XX 07-APR-2000; 2000DE-1019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

XX designed to detect single nucleotide polymorphisms and cytosine

XX methylation status -

XX Claim 1; SEQ ID 237583; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation.

XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

XX CC ABH00010-ABH82073 represent the oligomers described in the invention.

XX NOTE: The sequence data for this patent did not form part of the printed

XX specification, but was obtained in electronic format from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;

ABH37606 Length: 13 September 17, 2003 14:26 Type: N Check: 7096 ..

abhl37606

Query Match 57.0%; Score 11.4; DB 1; Length 13;

Best Local Similarity 92.3%; Pred. No. 74;

Matches 12: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATAAAATTCCTT 2754
 ||| |||||
 Db 13 AATAAAATTCCTT 1

RESULT 25

abhl37607
 ; TOIG of: abhl37607 check: 6863 from: 1 to: 13

ABH37607 standard; DNA: 13 BP.

AC ABH37607;

XX 22-FEB-2002 (first entry)

```

; XX Oligonucleotide SEQ ID NO 237584 for detecting SNP TSC0057940.
; DE
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2
; PD 18-OCT-2001.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
; ABH37607 Length: 13 September 17, 2003 14:26 Type: N Check: 6863 ..
; abh37607
Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATAAATCTTTT 2754
DB 1 AATAAATCTTTT 13
RESULT 26
abh41488/c
; TOIG of: abh41488 check: 6565 from: 1 to: 13
; ID ABH41488 standard; DNA; 13 BP.
; AC ABH41488;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 241465 for detecting SNP TSC0058897.
; OS Homo sapiens.
; PN WO200177384-A2
; PD 18-OCT-2001.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
; ABH37607 Length: 13 September 17, 2003 14:26 Type: N Check: 6863 ..
; abh37607
```

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; XX WO200177384-A2.
; DE
; XX 18-OCT-2001.
; PD
; XX 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PN (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 2 G; 3 T; 0 other;
; ABH41488 Length: 13 September 17, 2003 14:26 Type: N Check: 6565 ..
; abh41488
Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2744 TAAATATCTTTT 2756
DB 13 TAAATATCTTTT 1
RESULT 27
abh41489/c
; TOIG of: abh41489 check: 7097 from: 1 to: 13
; ID ABH41489 standard; DNA; 13 BP.
; AC ABH41489;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 241466 for detecting SNP TSC0058897.
; OS Homo sapiens.
; PN WO200177384-A2
; PD 18-OCT-2001.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 2 G; 3 T; 0 other;
; ABH41488 Length: 13 September 17, 2003 14:26 Type: N Check: 6565 ..
; abh41488
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; XX (EPIC-) EPIDENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; XX
; PI WPI; 2001-657177/75.
; XX
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1: SEQ ID 24466; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 3 A; 2 C; 0 G; 8 T; 0 other;
; ABH41489 Length: 13 September 17, 2003 14:26 Type: N Check: 7097 ..
; abh41489

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Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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OY 2744 TAAATTCCTTTC 2756
DB 1 TAAATTCCTTTC 13

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RESULT 28
abh50390/C
; TOIG of: abh50390 check: 7072 from: 1 to: 13
; ID ABH50390 standard; DNA: 13 BP.
; XX
; AC ABH50390;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 250367 for detecting SNP TSC0061133.
; XX
; KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is

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```

; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1: SEQ ID 250367; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 3 A; 0 C; 3 G; 7 T; 0 other;
; ABH50390 Length: 13 September 17, 2003 14:26 Type: N Check: 7072 ..
; abh50390

```

```

Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

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OY 2739 CTCATTAATTC 2751
DB 13 CTCATTAATTC 1

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RESULT 29
abh50391
; TOIG of: abh50391 check: 6500 from: 1 to: 13
; ID ABH50391 standard; DNA: 13 BP.
; XX
; AC ABH50391;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 250368 for detecting SNP TSC0061133.
; XX
; KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1: SEQ ID 250368; 29pp + Sequence listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The

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; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; range of diseases including immune system, gastrointestinal, respiratory,
; central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 7 A; 3 C; 0 G; 3 T; 0 other;
; ABH50391 Length: 13 September 17, 2003 14:26 Type: N Check: 6500
; abh50391

```

```

Query Match      57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

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Qy      2739 CTCATTAATTC 2751
Db      1 CACATTAATTC 13

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RESULT 30
abh50394/c
TOIG Of: abh50394 check: 6868 from: 1 to: 13

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; ID ABH50394 standard; DNA; 13 BP.
; XX
; AC ABH50394:
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 250371 for detecting SNP TSC0061133.
; XX
; KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX

```

```

; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 250371; 29pp + Sequence Listing; German.
; XX

```

```

; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at

```

```

; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 3 A; 1 C; 3 G; 6 T; 0 other;
; ABH50394 Length: 13 September 17, 2003 14:26 Type: N Check: 6868
; abh50394

```

```

Query Match      57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy      2739 CTCATTAATTC 2751
Db      13 CGCATTAATTC 1

```

```

RESULT 31
abh50395
TOIG Of: abh50395 check: 6512 from: 1 to: 13

```

```

; ID ABH50395 standard; DNA; 13 BP.
; XX
; AC ABH50395:
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 250372 for detecting SNP TSC0061133.
; XX
; KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX

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```

; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 250372; 29pp + Sequence Listing; German.
; XX

```

```

; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 6 A; 3 C; 1 G; 3 T; 0 other;
; ABH50395 Length: 13 September 17, 2003 14:26 Type: N Check: 6512
; abh50395

```

```

Query Match      57.0%; Score 11.4; DB 1; Length 13;

```

Best Local Similarity 92.3%; Pred. No. 74;
Matches 12: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2739 CTCATTAATAATTC 2751
| | | | | | | | | |
Db 1 CGCATTAATAATTC 13

RESULT 32
abhs3970/c
TOIG of: abhs3970 check: 6979 from: 1 to: 13

ID ABH53970 standard; DNA: 13 BP.
XX
AC ABH53970;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 253947 for detecting SNP TSC0061924.
XX

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.
XX
PN WO200177384-A2.
XX

PD 18-OCT-2001.
XX

PF 06-APR-2001; 2001WO-IB00713.
XX

PR 07-APR-2000; 2000DE-1019173.
XX

PA (EPIC-) EPIGENOMICS AG.
XX

PI Olek A, Plepenbrock C, Berlin K;
XX

DR WPI; 2001-657177/75.
XX

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status -
XX

PS Claim 1: SEQ ID 253947; 29pp + Sequence Listing; German.
XX

CC This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences.
XX

CC Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other;
XX
ABH53970 Length: 13 September 17, 2003 14:26 Type: N Check: 6979 ..
abhs3970

Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2743 ATAAATTCCTTT 2755
| | | | | | | | | |
Db 13 ATAAATTCCTTT 1

RESULT 33
abhs3971
TOIG of: abhs3971 check: 7112 from: 1 to: 13

ID ABH53971 standard; DNA: 13 BP.
XX
AC ABH53971;
XX
DT 22-FEB-2002 (first entry)
XX

DE Oligonucleotide SEQ ID NO 253948 for detecting SNP TSC0061924.
XX

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.
XX

PN WO200177384-A2.
XX

PD 18-OCT-2001.
XX

PF 06-APR-2001; 2001WO-IB00713.
XX

PR 07-APR-2000; 2000DE-1019173.
XX

PA (EPIC-) EPIGENOMICS AG.
XX

PI Olek A, Plepenbrock C, Berlin K;
XX

DR WPI; 2001-657177/75.
XX

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status -
XX

PS Claim 1: SEQ ID 253948; 29pp + Sequence Listing; German.
XX

CC This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences.
XX

CC Sequence 13 BP; 6 A; 0 C; 0 G; 7 T; 0 other;
XX
ABH53971 Length: 13 September 17, 2003 14:26 Type: N Check: 7112 ..
abhs3971

Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2743 ATAAATTCCTTT 2755
| | | | | | | | | |
Db 1 ATAAATTCCTTT 13

RESULT 34
abhs6848/c
TOIG of: abhs6848 check: 6831 from: 1 to: 13

ID ABH56848 standard; DNA: 13 BP.
XX
AC ABH56848;
XX

```

; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 256825 for detecting SNP TSC0009372.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 256825; 49pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 1 G; 4 T; 0 other;
; ABH56848 Length: 13 September 17, 2003 14:26 Type: N Check: 6831
; abh56848

Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2745 AAAATTCCTTTCT 2757
Db 13 AAAATTCCTTTT 1

RESULT 35
abh56849
; TOIG of: abh56849 check: 7335 from: 1 to: 13
; ID ABH56849 standard; DNA; 13 BP.
; XX
; AC ABH56849;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 256826 for detecting SNP TSC0009372.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX

```

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; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 256826; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 1 C; 0 G; 8 T; 0 other;
; ABH56849 Length: 13 September 17, 2003 14:26 Type: N Check: 7335
; abh56849

Query Match 57.0%; Score 11.4; DB 1; Length 13;
Best Local Similarity 92.3%; Pred. No. 74;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2745 AAAATTCCTTTCT 2757
Db 1 AAAATTCCTTTT 13

RESULT 36
abh564541
; TOIG of: abv64541 check: 4751 from: 1 to: 11
; ID ABV64541 standard; cDNA; 11 BP.
; XX
; AC ABV64541;
; XX
; DT 21-OCT-2002 (first entry)
; XX
; DE Human skin EST 2327.
; XX
; KW Human; skin; dermatological; vulvular; antipsoriatic; antiseborrheic;
; KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
; KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200253774-A2.
; PD 11-JUL-2002.
; XX
; PF 20-DEC-2001; 2001WO-EP15179.
; XX

```

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; PR 03-JAN-2001; 2001DE-1000127.
; XX (HENK ) HENKEL KGAA.
; XX Petersohn D, Conradt M, Hofmann K;
; XX WPI; 2002-590638/63.
; XX
; XX In vitro identification of skin-expressed genes, useful for determining
; PT homeostasis and identifying cosmetic or pharmaceutical agents against
; PT e.g. skin cancer
; XX
; XX Disclosure; Page 89; 1345pp; German.
; XX
; XX The invention relates to in vitro identification (M1) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE).
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M1) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; XX
; SQ Sequence 11 BP; 6 A; 2 C; 0 G; 3 T; 0 other;
;
; ABV64541 Length: 11 September 17, 2003 14:26 Type: N Check: 4751
abv64541
Query Match 55.0%; Score 11; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 80;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CAATAAAATTC 2751
DB 1 CAATAAAATTC 11

RESULT 37
abv71962
; TOIG of: abv71962 check: 4751 from: 1 to: 11
; ID ABV71962 standard; cDNA; 11 BP.
; XX AC ABV71962;
; XX DT 21-OCT-2002 (first entry)
; XX DE Human skin EST 9748.
; XX PE Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhaeic;
; KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
; KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX OS Homo sapiens.
; XX PN WO200253774-A2.
; XX PD 11-JUL-2002.
; XX PR 20-DEC-2001; 2001WO-EF15179.
; XX PR 03-JAN-2001; 2001DE-1000127.
; XX PA (HENK ) HENKEL KGAA.
; XX PI Petersohn D, Conradt M, Hofmann K;
; XX WPI; 2002-590638/63.
; XX

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; PT In vitro identification of skin-expressed genes, useful for determining
; PT homeostasis and identifying cosmetic or pharmaceutical agents against
; XX e.g. skin cancer
; XX Claim 24; Page 315; 1345pp; German.
; XX
; XX The invention relates to in vitro identification (M1) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE)
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M1) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; XX
; SQ Sequence 11 BP; 6 A; 2 C; 0 G; 3 T; 0 other;
;
; ABV71962 Length: 11 September 17, 2003 14:26 Type: N Check: 4751
abv71962
Query Match 55.0%; Score 11; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 80;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CAATAAAATTC 2751
DB 1 CAATAAAATTC 11

RESULT 38
abv69872
; TOIG of: abv69872 check: 5439 from: 1 to: 12
; ID ABH69872 standard; DNA; 12 BP.
; XX AC ABH69872;
; XX DT 22-FEB-2002 (first entry)
; XX DE Oligonucleotide primer SEQ ID NO 269849 for detecting SNP TSC0001903.
; XX SN SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX OS Homo sapiens.
; XX PN WO200177384-A2.
; XX PD 18-OCT-2001.
; XX PR 06-APR-2001; 2001WO-IB00713.
; XX PR 07-APR-2000; 2000DE-1019173.
; XX PA (EPIC-) EPIGENOMICS AG.
; XX PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; XX Claim 1; SEQ ID 269849; 29pp + Sequence Listing; German.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

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; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABH00010-ABH99989, ABH00010-ABH99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SO Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; ABH69872 Length: 12 September 17, 2003 14:26 Type: N Check: 5439 ..
; abh69872
Query Match          55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY      2739 CTCATATAAT 2749
Db      1 CTCATATAAT 11
RESULT 39
abh77906
; TOIG of: abh77906 check: 5684 from: 1 to: 12
; ID ABH77906 standard; DNA: 12 BP.
; XX ABH77906;
; XX
; XX 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 277899 for detecting SNP TSC0005170.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 277899; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABH00010-ABH99989, ABH00010-ABH99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.

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; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SO Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;
; ABH77906 Length: 12 September 17, 2003 14:26 Type: N Check: 5684 ..
; abh77906
Query Match          55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY      2740 TCATATAAT 2750
Db      2 TCATATAAT 12
RESULT 40
abh94140/c
; TOIG of: abh94140 check: 5939 from: 1 to: 12
; ID ABH94140 standard; DNA: 12 BP.
; XX ABH94140;
; XX
; XX 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 294133 for detecting SNP TSC0015968.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 294133; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABH00010-ABH99989, ABH00010-ABH99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; SO Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
; ABH94140 Length: 12 September 17, 2003 14:26 Type: N Check: 5939 ..
; abh94140

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Query Match 55.0%: Score 11; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 85;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2743 ATAAATTCCTT 2753
 |||||
 Db 11 ATAAATTCCTT 1

RESULT 41
 abh94751
 ; TOIG of: abh94751 check: 5810 from: 1 to: 12

;; ID ABH94751 standard; DNA; 12 BP.
 ;; XX
 ;; AC ABH94751;
 ;; XX
 ;; DT 22-FEB-2002 (first entry)
 ;; XX
 ;; DE Oligonucleotide primer SEQ ID NO 294744 for detecting SNP TSC0016255.
 ;; XX
 ;; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 ;; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 ;; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
 ;; OS Homo sapiens.
 ;; XX
 ;; PN WO200177384-A2.
 ;; XX
 ;; PD 18-OCT-2001.
 ;; XX
 ;; PF 06-APR-2001; 2001WO-IB00713.
 ;; XX
 ;; PR 07-APR-2000; 2000DE-1019173.
 ;; XX
 ;; PT (EPIG-) EPIGENOMICS AG.
 ;; PA
 ;; XX
 ;; PI Olek A, Piepenbrock C, Berlin K;
 ;; XX
 ;; PS WPI; 2001-657177/75.

;; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
 ;; PT designed to detect single nucleotide polymorphisms and cytosine
 ;; PT methylation status -
 ;; PT
 ;; PS
 ;; XX

Claim 1: SEQ ID 294744; 29pp + Sequence Listing; German.

;; CC This invention describes novel oligonucleotide primers or peptide nucleic
 ;; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 ;; CC and cytosine methylation status in chemically pretreated genomic DNA. The
 ;; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 ;; CC range of diseases including immune system, gastrointestinal, respiratory,
 ;; CC central nervous system, cardiovascular and metabolic disorders. The
 ;; CC oligomers are also used for detecting cell type differentiation.
 ;; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 ;; CC ABI00010-ABI82073 represent the oligomers described in the invention.
 ;; CC NOTE: The sequence data for this patent did not form part of the printed
 ;; CC specification, but was obtained in electronic format from WIPO at
 ;; CC ftp.wipo.int/pub/published_pct_sequences.
 ;; CC
 ;; XX

;; SQ Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;

;; ABH94751 Length: 12 September 17, 2003 14:26 Type: N Check: 5810 ..
 ; abh94751

Query Match 55.0%: Score 11; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 85;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2743 ATAAATTCCTT 2753
 |||||
 Db 1 ATAAATTCCTT 11

RESULT 42
 ab100303/c
 ; TOIG of: ab100303 check: 6050 from: 1 to: 12

;; ID AB100303 standard; DNA; 12 BP.
 ;; XX
 ;; AC AB100303;
 ;; XX
 ;; DT 22-FEB-2002 (first entry)
 ;; XX
 ;; DE Oligonucleotide primer SEQ ID NO 300276 for detecting SNP TSC0018946.
 ;; XX
 ;; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 ;; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 ;; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
 ;; OS Homo sapiens.
 ;; XX
 ;; PN WO200177384-A2.
 ;; XX
 ;; PD 18-OCT-2001.
 ;; XX
 ;; PF 06-APR-2001; 2001WO-IB00713.
 ;; XX
 ;; PR 07-APR-2000; 2000DE-1019173.
 ;; XX
 ;; PT (EPIG-) EPIGENOMICS AG.
 ;; PA
 ;; XX
 ;; PI Olek A, Piepenbrock C, Berlin K;
 ;; XX
 ;; PS WPI; 2001-657177/75.

;; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
 ;; PT designed to detect single nucleotide polymorphisms and cytosine
 ;; PT methylation status -
 ;; PT
 ;; PS
 ;; XX

Claim 1: SEQ ID 300276; 29pp + Sequence Listing; German.

;; CC This invention describes novel oligonucleotide primers or peptide nucleic
 ;; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 ;; CC and cytosine methylation status in chemically pretreated genomic DNA. The
 ;; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 ;; CC range of diseases including immune system, gastrointestinal, respiratory,
 ;; CC central nervous system, cardiovascular and metabolic disorders. The
 ;; CC oligomers are also used for detecting cell type differentiation.
 ;; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 ;; CC ABI00010-ABI82073 represent the oligomers described in the invention.
 ;; CC NOTE: The sequence data for this patent did not form part of the printed
 ;; CC specification, but was obtained in electronic format from WIPO at
 ;; CC ftp.wipo.int/pub/published_pct_sequences.
 ;; CC
 ;; XX

;; SQ Sequence 12 BP; 6 A; 0 C; 1 G; 5 T; 0 other;

;; AB100303 Length: 12 September 17, 2003 14:26 Type: N Check: 6050 ..
 ; ab100303

Query Match 55.0%: Score 11; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 85;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2745 AAAATTCCTTT 2755
 |||||
 Db 11 AAAATTCCTTT 1

RESULT 43
 ab100304/c
 ; TOIG of: ab100304 check: 5846 from: 1 to: 12

;; ID AB100304 standard; DNA; 12 BP.
 ;; XX
 ;; AC AB100304;

```

; XX 22-FEB-2002 (first entry)
; DT
; XX
; DE Oligonucleotide primer SEQ ID NO 300277 for detecting SNP TSC0018946.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPICENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 300277; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 6 A; 1 C; 1 G; 4 T; 0 other;
; AB100304 Length: 12 September 17, 2003 14:26 Type: N Check: 5846 ..
; ab100304
Query Match 55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2745 AAAATTCCTTT 2755
DB 11 AAAATTCCTTT 1
RESULT 44
ab111419
TOIG of: ab111419 check: 5531 from: 1 to: 12
; ID AB111419 standard; DNA; 12 BP.
; XX
; AC AB111419;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 311392 for detecting SNP TSC0024464.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; KW

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; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPICENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 311392; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; AB111419 Length: 12 September 17, 2003 14:26 Type: N Check: 5531 ..
; ab111419
Query Match 55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2741 CAAATAATTC 2751
DB 1 CAAATAATTC 11
RESULT 45
ab124949
TOIG of: ab124949 check: 5519 from: 1 to: 12
; ID AB124949 standard; DNA; 12 BP.
; XX
; AC AB124949;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 324922 for detecting SNP TSC0032300.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; KW
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.

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; XX 07-APR-2000; 2000DE-1019173.
; PR (EPiG-) EPIGENOMICS AG.
; PA
; PT methylation status
; PT methylation status
; PS Claim 1; SEQ ID 324922; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
; AB124949 Length: 12 September 17, 2003 14:26 Type: N Check: 5519 ..
; ab124949
Query Match 55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2739 CTCATTAAT 2749
Db 2 CTCATTAAT 12
RESULT 46
ab135669
; TOTG of: ab135669 check: 5502 from: 1 to: 12
; ID AB135669 standard; DNA: 12 BP.
; AC
; XX AB135669;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 335642 for detecting SNP TSC0000578.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; OS
; PN WO200177384-A2.
; PN
; PD 18-OCT-2001.
; PD
; PF 06-APR-2001; 2001WO-IB00713.
; PF
; PR 07-APR-2000; 2000DE-1019173.
; PR
; PA (EPiG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; PI
; PS Claim 1; SEQ ID 345100; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
; AB124949 Length: 12 September 17, 2003 14:26 Type: N Check: 5519 ..
; ab124949

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; XX 07-APR-2000; 2000DE-1019173.
; PR (EPiG-) EPIGENOMICS AG.
; PA
; PT methylation status
; PT methylation status
; PS Claim 1; SEQ ID 335642; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 3 C; 0 G; 3 T; 0 other;
; AB135669 Length: 12 September 17, 2003 14:26 Type: N Check: 5502 ..
; ab135669
Query Match 55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2739 CTCATTAAT 2749
Db 2 CTCATTAAT 12
RESULT 47
ab145127
; TOTG of: ab145127 check: 5757 from: 1 to: 12
; ID AB145127 standard; DNA: 12 BP.
; AC
; XX AB145127;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 345100 for detecting SNP TSC0007989.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; OS
; PN WO200177384-A2.
; PN
; PD 18-OCT-2001.
; PD
; PF 06-APR-2001; 2001WO-IB00713.
; PF
; PR 07-APR-2000; 2000DE-1019173.
; PR
; PA (EPiG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; PI
; PS Claim 1; SEQ ID 345100; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 3 C; 0 G; 3 T; 0 other;
; AB135669 Length: 12 September 17, 2003 14:26 Type: N Check: 5502 ..
; ab135669

```

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcr_sequences.
XX
SQ Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
AB145127 Length: 12 September 17, 2003 14:26 Type: N Check: 5757 ..
ab145127

Query Match 55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATTAATCTT 2752
Db 2 AATTAATCTT 12

RESULT 48
ab153681/c
TOIG of: ab153681 check: 5974 from: 1 to: 12

ID AB153681 standard; DNA; 12 BP.
XX
AC AB153681;
XX
DF 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 353654 for detecting SNP TSC0048633.
XX
SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO20017384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2R01WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PS WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 353654; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX
XX oligomers are also used for detecting cell type differentiation.
XX
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcr_sequences.
XX
XX Sequence 12 BP; 6 A; 0 C; 2 G; 4 T; 0 other;
XX
SQ
AB168821 Length: 12 September 17, 2003 14:26 Type: N Check: 5828 ..
ab168821

CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcr_sequences.
XX
SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
AB153681 Length: 12 September 17, 2003 14:26 Type: N Check: 5974 ..
ab153681

Query Match 55.0%; Score 11; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2743 AATTAATCTT 2753
Db 12 AATTAATCTT 2

RESULT 49
ab168821/c
TOIG of: ab168821 check: 5828 from: 1 to: 12

ID AB168821 standard; DNA; 12 BP.
XX
AC AB168821;
XX
DF 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 368794 for detecting SNP TSC0057232.
XX
SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO20017384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PS WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1; SEQ ID 368794; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX
XX oligomers are also used for detecting cell type differentiation.
XX
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcr_sequences.
XX
XX Sequence 12 BP; 6 A; 0 C; 2 G; 4 T; 0 other;
XX
SQ
AB168821 Length: 12 September 17, 2003 14:26 Type: N Check: 5828 ..
ab168821

Query Match 55.0%; Score 11; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 85;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2744 TAAATTCCTT 2754
 |||||||
 Db 12 TAAATTCCTT 2

RESULT 50
 abi77245/c

TOIG of: abi77245 check: 6114 from: 1 to: 12

ID ABI77245 standard; DNA: 12 BP.

XX AC ABI77245;

DT 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 377218 for detecting SNP TSC0062193.

DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

XX WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PS WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

XX methylation status -

PT Claim 1; SEQ ID 377218; 29pp + sequence listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The

CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

CC range of diseases including immune system, gastrointestinal, respiratory,

CC central nervous system, cardiovascular and metabolic disorders. The

CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABR00010-ABR99989 and

CC ABI00010-ABI82073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;

AB177245 Length: 12 September 17, 2003 14:26 Type: N Check: 6114 ..

Query Match 55.0%; Score 11; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 85;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAATTCCT 2752

|||||

Db 12 AATAAATTCCT 2

RESULT 51
 abi81180

TOIG of: abi81180 check: 5815 from: 1 to: 12

ID ABI81180 standard; DNA: 12 BP.

XX AC ABI81180;

DT 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 381153 for detecting SNP TSC0064207.

DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

XX WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PS WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

XX methylation status -

PT Claim 1; SEQ ID 381153; 29pp + sequence listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The

CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

CC range of diseases including immune system, gastrointestinal, respiratory,

CC central nervous system, cardiovascular and metabolic disorders. The

CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABR00010-ABR99989 and

CC ABI00010-ABI82073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;

AB181180 Length: 12 September 17, 2003 14:26 Type: N Check: 5815 ..

Query Match 55.0%; Score 11; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 85;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 TCAATTAATTT 2750

|||||

Db 1 TCAATTAATTT 11

RESULT 52

abc25184/c

TOIG of: abc25184 check: 6418 from: 1 to: 13

ID ABC25184 standard; DNA: 13 BP.

XX

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; AC ABC25184;
; XX 20-FEB-2002 (first entry)
; DT
; XX
; XX Oligonucleotide SEQ ID NO 25201 for detecting SNP TSC0006159.
; DE
; XX SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens
; XX WO200177384-A2.
; XX 18-OCT-2001.
; XX 06-APR-2001; 2001WO-IB00713.
; XX 07-APR-2000; 2000DE-1019173.
; XX (EPIC-) EPICENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; XX Claim 1: SEQ ID 25201; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 9 A; 0 C; 2 G; 2 T; 0 other;
; SQ
; ABC25184 Length: 13 September 17, 2003 14:26 Type: N Check: 6418 ..
; abc25184

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2747 AATTCCTTCT 2757
Db 12 AATTCCTTCT 2

RESULT 53
abc25185
; TOIG of: abc25185 check: 7260 from: 1 to: 13
; ID ABC25185 standard; DNA; 13 BP.
; XX
; AC ABC25185;
; DT 20-FEB-2002 (first entry)
; XX
; XX Oligonucleotide SEQ ID NO 25202 for detecting SNP TSC0006159.
; DE
; XX SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

```

```

; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX 18-OCT-2001.
; XX 06-APR-2001; 2001WO-IB00713.
; XX 07-APR-2000; 2000DE-1019173.
; XX (EPIC-) EPICENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; XX Claim 1: SEQ ID 25202; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 2 A; 2 C; 0 G; 9 T; 0 other;
; SQ
; ABC25185 Length: 13 September 17, 2003 14:26 Type: N Check: 7260 ..
; abc25185

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2747 AATTCCTTCT 2757
Db 2 AATTCCTTCT 12

RESULT 54
abc26384/c
; TOIG of: abc26384 check: 6996 from: 1 to: 13
; ID ABC26384 standard; DNA; 13 BP.
; XX
; AC ABC26384;
; DT 20-FEB-2002 (first entry)
; XX
; XX Oligonucleotide SEQ ID NO 26401 for detecting SNP TSC0006956.
; DE
; XX SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX 18-OCT-2001.

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PE 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
XX PS Claim 1; SEQ ID 26401; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
XX
XX ABC26384 Length: 13 September 17, 2003 14:26 Type: N Check: 6996
XX abc26384
XX
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2745 AAAATTCCTTT 2755
DB 12 AAAATTCCTTT 2

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DR WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
XX PS Claim 1; SEQ ID 26402; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other;
XX
XX ABC26385 Length: 13 September 17, 2003 14:26 Type: N Check: 7223
XX abc26385
XX
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2745 AAAATTCCTTT 2755
DB 2 AAAATTCCTTT 12

```

```

RESULT 55
abc26385
TolG of: abc26385 check: 7223 from: 1 to: 13
ID ABC26385 standard; DNA; 13 BP.
XX
XX AC ABC26385
XX
XX DT 20-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 26402 for detecting SNP TSC0006956.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPiG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX

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RESULT 56
abc50248
TolG of: abc50248 check: 7234 from: 1 to: 13
ID ABC50248 standard; DNA; 13 BP.
XX
XX AC ABC50248;
XX
XX DT 21-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 50265 for detecting SNP TSC0014145.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPiG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
XX PS Claim 1; SEQ ID 50265; 29pp + Sequence Listing; German.
XX
XX

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```

; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB1000010-ABC99989, ABF00010-ABF99989 and
; CC AB1000010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC SQ Sequence 13 BP; 6 A; 0 C; 0 G; 6 T; 1 other:
; CC
; CC ABC50248 Length: 13 September 17, 2003 14:26 Type: N Check: 7234 ..
; CC abc50248
;
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATFAAATTCCTT 2754
Db 1 AATFAAATTCCTT 13

RESULT 57
abc50249/c
TOIG of: abc50249 check: 7053 from: 1 to: 13
; ID ABC50249 standard; DNA; 13 BP.
; AC ABC50249:
; XX
; XX 21-FEB-2002 (first entry)
; DT
; XX
; XX Oligonucleotide SEQ ID NO 50266 for detecting SNP TSC0014145.
; DE
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI; 2001-657177/75.
; DR
; XX
; XX
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PT
; XX
; XX Claim 1; SEQ ID 50266; 29pp + Sequence Listing; German.
; PS
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB1000010-ABC99989, ABF00010-ABF99989 and
; CC AB1000010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC SQ Sequence 13 BP; 6 A; 0 C; 0 G; 6 T; 1 other:
; CC
; CC ABC50248 Length: 13 September 17, 2003 14:26 Type: N Check: 7234 ..
; CC abc50248

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; CC AB1000010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC SQ Sequence 13 BP; 6 A; 0 C; 0 G; 6 T; 1 other:
; CC
; CC ABC50249 Length: 13 September 17, 2003 14:26 Type: N Check: 7053 ..
; CC abc50249
;
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATFAAATTCCTT 2754
Db 13 AATFAAATTCCTT 1

RESULT 58
abc53848/c
TOIG of: abc53848 check: 6991 from: 1 to: 13
; ID ABC53848 standard; DNA; 13 BP.
; AC ABC53848:
; XX
; XX 21-FEB-2002 (first entry)
; DT
; XX
; XX Oligonucleotide SEQ ID NO 53865 for detecting SNP TSC0014823.
; DE
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI; 2001-657177/75.
; DR
; XX
; XX
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PT
; XX
; XX Claim 1; SEQ ID 53865; 29pp + Sequence Listing; German.
; PS
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB1000010-ABC99989, ABF00010-ABF99989 and
; CC AB1000010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC SQ Sequence 13 BP; 6 A; 0 C; 2 G; 4 T; 1 other:
; CC
; CC ABC53848 Length: 13 September 17, 2003 14:26 Type: N Check: 6991 ..

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abc53848

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2743 ATAAATTCCTTT 2755
Db 13 RTAAATTCCTCT 1

RESULT 59
abc53849

; TOIG of: abc53849 check: 6943 from: 1 to: 13

; ID ABC53849 standard; DNA; 13 BP.

; AC ABC53849;

; DT 21-FEB-2002 (first entry)

; XX Oligonucleotide SEQ ID NO 53866 for detecting SNP TSC0014823.

; KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

; OS Homo sapiens.

; PN WO200177384-A2.

; PD 18-OCT-2001.

; PE 06-APR-2001; 2001WO-IB00713.

; PR 07-APR-2000; 2000DE-1019173.

; PA (EPIC-) EPIGENOMICS AG.

; PI Olek A, Piepenbrock C, Berlin K;

; PS WPI; 2001-657177/75.

; PT Set of oligonucleotides, useful for diagnosis and cell typing, is

; PT designed to detect single nucleotide polymorphisms and cytosine

; PT methylation status.

; PS Claim 1; SEQ ID 53866; 29pp + Sequence Listing; German.

; CC This invention describes novel oligonucleotide primers or peptide nucleic

; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

; CC and cytosine methylation status in chemically pretreated genomic DNA. The

; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

; CC range of diseases including immune system, gastrointestinal, respiratory,

; CC central nervous system, cardiovascular and metabolic disorders. The

; CC oligomers are also used for detecting cell type differentiation.

; CC ABC00010-ABC9989, ABR00010-ABF9989, ABH00010-ABH9989 and

; CC AB100010-AB182073 represent the oligomers described in the invention.

; CC NOTE: The sequence data for this patent did not form part of the printed

; CC specification, but was obtained in electronic format from WIPO at

; CC ftp.wipo.int/pub/published_pct_sequences.

; XX Sequence 13 BP; 4 A; 2 C; 0 G; 6 T; 1 other;

; ABC53849 Length: 13 September 17, 2003 14:26 Type: N Check: 6943 ..
abc53849

Query Match 55.0%; Score 11; DB 1; Length 13;

Best Local Similarity 84.6%; Pred. No. 90;

Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2743 ATAAATTCCTTT 2755
:|||||||||

Db 1 RTAAATTCCTCT 13

RESULT 60
abc93662/c
; TOIG of: abc93662 check: 7295 from: 1 to: 13

; ID ABC93662 standard; DNA; 13 BP.

; AC ABC93662;

; DT 21-FEB-2002 (first entry)

; XX Oligonucleotide SEQ ID NO 93679 for detecting SNP TSC0023399.

; KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

; OS Homo sapiens.

; PN WO200177384-A2.

; PD 18-OCT-2001.

; PE 06-APR-2001; 2001WO-IB00713.

; PR 07-APR-2000; 2000DE-1019173.

; PA (EPIC-) EPIGENOMICS AG.

; PI Olek A, Piepenbrock C, Berlin K;

; PS WPI; 2001-657177/75.

; PT Set of oligonucleotides, useful for diagnosis and cell typing, is

; PT designed to detect single nucleotide polymorphisms and cytosine

; PT methylation status.

; PS Claim 1; SEQ ID 93679; 29pp + Sequence Listing; German.

; CC This invention describes novel oligonucleotide primers or peptide nucleic

; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

; CC and cytosine methylation status in chemically pretreated genomic DNA. The

; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

; CC range of diseases including immune system, gastrointestinal, respiratory,

; CC central nervous system, cardiovascular and metabolic disorders. The

; CC oligomers are also used for detecting cell type differentiation.

; CC ABC00010-ABC9989, ABR00010-ABF9989, ABH00010-ABH9989 and

; CC AB100010-AB182073 represent the oligomers described in the invention.

; CC NOTE: The sequence data for this patent did not form part of the printed

; CC specification, but was obtained in electronic format from WIPO at

; CC ftp.wipo.int/pub/published_pct_sequences.

; XX Sequence 13 BP; 4 A; 0 C; 1 G; 8 T; 0 other;

; ABC93662 Length: 13 September 17, 2003 14:26 Type: N Check: 7295 ..
abc93662

Query Match 55.0%; Score 11; DB 1; Length 13;

Best Local Similarity 100.0%; Pred. No. 90;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2742 ATAAATTCCT 2752
Db 11 RTAAATTCCT 1

RESULT 61

abc93663

; TOIG of: abc93663 check: 6680 from: 1 to: 13

; ID ABC93663 standard; DNA; 13 BP.

```

; XX ABC93663;
; AC
; XX
; XX 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 93680 for detecting SNP TSC0023399.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 93680; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 other;
; ABC93663 Length: 13 September 17, 2003 14:26 Type: N Check: 6680 ..
; abc93663

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2742 AATFAAATTCT 2752
Db 3 AATFAAATTCT 13

RESULT 62
abf02688/c
; TOIG of: abf02688 check: 7241 from: 1 to: 13
; ID ABF02688 standard; DNA; 13 BP.
; XX
; AC ABF02688;
; XX
; XX 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 102685 for detecting SNP TSC0025646.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX
```

```

; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 102685; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 other;
; ABF02688 Length: 13 September 17, 2003 14:26 Type: N Check: 7241 ..
; abf02688

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATFAAATTC 2751
Db 11 CAATFAAATTC 1

RESULT 63
abf02689
; TOIG of: abf02689 check: 6498 from: 1 to: 13
; ID ABF02689 standard; DNA; 13 BP.
; XX
; AC ABF02689;
; XX
; XX 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 102686 for detecting SNP TSC0025646.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
```

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; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 102686; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, AB000010-AB099989 and
; CC AB000010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 2 C; 0 G; 3 T; 0 other;
; XX
; AB02669 Length: 13 September 17, 2003 14:26 Type: N Check: 6498 ..
; AB02689
;
Query Match      55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2741 CAATAAATTC 2751
Db      3 CAATAAATTC 13

RESULT 64
ab08252
; TOIG of: abf08252 check: 7443 from: 1 to: 13
;
; ID ABF08252 standard; DNA: 13 BP.
; XX
; AC ABF08252;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 108249 for detecting SNP TSC0027107.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
```

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; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 108249; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, AB000010-AB099989 and
; CC AB000010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 0 G; 8 T; 1 other;
; XX
; ABF08252 Length: 13 September 17, 2003 14:26 Type: N Check: 7443 ..
; abf08252
;
Query Match      55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY      2744 TAAATTCCTTTC 2756
Db      1 TAAATTCCTTTC 13

RESULT 65
abf08253/c
; TOIG of: abf08253 check: 6730 from: 1 to: 13
;
; ID ABF08253 standard; DNA: 13 BP.
; XX
; AC ABF08253;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 108250 for detecting SNP TSC0027107.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 108250; 29pp + Sequence Listing; German.
```

```

; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-AB182073 represent the oligomers described in the invention.
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 8 A; 0 C; 0 G; 4 T; 1 other;
; CC
; ABF08253 Length: 13 September 17, 2003 14:26 Type: N Check: 6730 ..
; abt08253
;
; Query Match 55.0%; Score 11; DB 1; Length 13;
; Best Local Similarity 84.6%; Pred. No. 90;
; Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2744 TAAATTCCTTC 2756
; Db 13 TAAATTCCTTC 1
;
; RESULT 66
; abf1194/c
; TOIG of: abf1194 check: 6868 from: 1 to: 13
;
; ID ABF1194 standard; DNA; 13 BP.
; AC ABF1194;
; XX
; DT 21-FEB-2002 (first entry)
; DE
; DE Oligonucleotide SEQ ID NO 111191 for detecting SNP TSC0027768.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; XX Claim 1; SEQ ID 111191; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC
; CC Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 other;
; CC
```

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; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 5 A; 0 C; 1 G; 7 T; 0 other;
; CC
; ABF1194 Length: 13 September 17, 2003 14:26 Type: N Check: 6868 ..
; abf1194
;
; Query Match 55.0%; Score 11; DB 1; Length 13;
; Best Local Similarity 100.0%; Pred. No. 90;
; Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2740 TCAATAAAT 2750
; Db 11 TCAATAAAT 1
;
; RESULT 67
; abf1195
; TOIG of: abf1195 check: 6607 from: 1 to: 13
;
; ID ABF1195 standard; DNA; 13 BP.
; AC ABF1195;
; XX
; DT 21-FEB-2002 (first entry)
; DE
; DE Oligonucleotide SEQ ID NO 111192 for detecting SNP TSC0027768.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; XX Claim 1; SEQ ID 111192; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC
; CC Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 other;
; CC
```



```

; ID ABE36498 standard; DNA; 13 BP.
; XX
; AC ABE36498;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 136495 for detecting SNP TSC0034107.
; XX
; KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-1B00713.
; XX
; PF 07-APR-2000; 2000DE-1019173.
; XX
; PR (EPIG-) EPIGENOMICS AG.
; XX
; PA Olek A, Piepenbrock C, Berlin K;
; XX
; PI WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 136495; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABE00010-ABE99989, ABE00010-ABE99989, ABE00010-ABE99989 and
; CC ABE00010-ABE99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 0 G; 4 T; 1 other;
; ABF36498 Length: 13 September 17, 2003 14:26 Type: N Check: 6949 ..
; ABF36498
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
;
QY 2743 ATAAATTCCTTT 2755
; :|||||
; 13 RTAAATTTTTTTT 1
;
RESULT 71
; TOIG of: abf36499 check: 7300 from: 1 to: 13
; ID ABE36499 standard; DNA; 13 BP.
; XX
; AC ABE36499;
; XX
; KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-1B00713.
; XX
; PF 07-APR-2000; 2000DE-1019173.
; XX
; PR (EPIG-) EPIGENOMICS AG.
; XX
; PA Olek A, Piepenbrock C, Berlin K;
; XX
; PI WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 136496; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABE00010-ABE99989, ABE00010-ABE99989, ABE00010-ABE99989 and
; CC ABE00010-ABE99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 0 G; 8 T; 1 other;
; ABF36499 Length: 13 September 17, 2003 14:26 Type: N Check: 7300 ..
; ABF36499
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
;
QY 2743 ATAAATTCCTTT 2755
; :|||||
; 1 RTAAATTTTTTTT 13
;
RESULT 72
; TOIG of: abf40554/c check: 6997 from: 1 to: 13
; ID ABE40554 standard; DNA; 13 BP.
; XX
; AC ABE40554;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 140551 for detecting SNP TSC0035239.
; XX
; KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.

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; KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-1B00713.
; XX
; PF 07-APR-2000; 2000DE-1019173.
; XX
; PR (EPIG-) EPIGENOMICS AG.
; XX
; PA Olek A, Piepenbrock C, Berlin K;
; XX
; PI WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 136496; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABE00010-ABE99989, ABE00010-ABE99989, ABE00010-ABE99989 and
; CC ABE00010-ABE99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 0 G; 8 T; 1 other;
; ABF36499 Length: 13 September 17, 2003 14:26 Type: N Check: 7300 ..
; ABF36499
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
;
QY 2743 ATAAATTCCTTT 2755
; :|||||
; 1 RTAAATTTTTTTT 13
;
RESULT 72
; TOIG of: abf40554/c check: 6997 from: 1 to: 13
; ID ABE40554 standard; DNA; 13 BP.
; XX
; AC ABE40554;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 140551 for detecting SNP TSC0035239.
; XX
; KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.

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PD 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-65717/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 140551; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SO Sequence 13 BP; 6 A; 0 C; 2 G; 4 T; 1 other;
XX
XX ABF40554 Length: 13 September 17, 2003 14:26 Type: N Check: 6997 ..
XX abf40554

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATTCCTTT 2755
DB 13 RTAAATTCCTTT 1

RESULT 73
abf40555
TOIG of: abf40555 check: 6960 from: 1 to: 13
XX
XX ID ABF40555 standard; DNA; 13 BP.
XX
XX AC ABF40555;
XX
XX DT 21-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 140552 for detecting SNP TSC0035239.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPiG-) EPIGENOMICS AG.
XX
XX

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PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-65717/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 140552; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SO Sequence 13 BP; 4 A; 2 C; 0 G; 6 T; 1 other;
XX
XX ABF40555 Length: 13 September 17, 2003 14:26 Type: N Check: 6960 ..
XX abf40555

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATTCCTTT 2755
DB 1 RTAAATTCCTTT 13

RESULT 74
abf60992/c
TOIG of: abf60992 check: 6764 from: 1 to: 13
XX
XX ID ABF60992 standard; DNA; 13 BP.
XX
XX AC ABF60992;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide SEQ ID NO 160989 for detecting SNP TSC0040537.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPiG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-65717/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX

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; PS Claim 1: SEQ ID 160989; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 other;
; SQ
; ABF60992 Length: 13 September 17, 2003 14:26 Type: N Check: 6764
; abf60992

Query Match          55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2744 TAAATTCCTT 2754
Db      12 TAAATTCCTT 2

RESULT 75
abf60993
; TOIG of: abf60993 check: 6885 from: 1 to: 13
; ID ABR60993 standard; DNA; 13 BP.
; AC ABR60993;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX
; XX Oligonucleotide SEQ ID NO 160990 for detecting SNP TSC0040537.
; DE
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI: 2001-657177/75.
; PS
; XX
; XX Claim 1: SEQ ID 160990; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The

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; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 5 A; 2 C; 0 G; 6 T; 0 other;
; SQ
; ABF60993 Length: 13 September 17, 2003 14:26 Type: N Check: 6885
; abf60993

Query Match          55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2744 TAAATTCCTT 2754
Db      2 TAAATTCCTT 12

RESULT 76
abf5260/c
; TOIG of: abf5260 check: 7075 from: 1 to: 13
; ID ABR65260 standard; DNA; 13 BP.
; AC ABR65260;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX
; XX Oligonucleotide SEQ ID NO 165257 for detecting SNP TSC0041445.
; DE
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI: 2001-657177/75.
; PS
; XX
; XX Claim 1: SEQ ID 165257; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 other;
; SQ

```

ABF65260 Length: 13 September 17, 2003 14:26 Type: N Check: 7075 ..
abf65260

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATAAAATTC 2751
DB 13 CAATAAAATTC 3

RESULT 77
abf65261
TOIG of: abf65261 check: 6376 from: 1 to: 13

ID ABR65261 standard; DNA; 13 BP.

AC ABR65261.

XX 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 165258 for detecting SNP TSC0041445.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PE 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

DR WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -

PS Claim 1; SEQ ID 165258; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcl_sequences.

XX Sequence 13 BP; 8 A; 2 C; 0 G; 3 T; 0 other;

ABF65261 Length: 13 September 17, 2003 14:26 Type: N Check: 6376 ..
abf65261

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATAAAATTC 2751
DB 1 CAATAAAATTC 11

RESULT 78
abf66890/c
TOIG of: abf66890 check: 7101 from: 1 to: 13

ID ABR66890 standard; DNA; 13 BP.

AC ABR66890;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 166887 for detecting SNP TSC0041779.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PE 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

DR WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -

PS Claim 1; SEQ ID 166887; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcl_sequences.

XX Sequence 13 BP; 7 A; 0 C; 0 G; 5 T; 1 other;

ABF66890 Length: 13 September 17, 2003 14:26 Type: N Check: 7101 ..
abf66890

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATAAAATTC 2754
DB 13 AATAAAATTC 1

RESULT 79
abf66891
TOIG of: abf66891 check: 7186 from: 1 to: 13

```

; ID ABE66891 standard; DNA: 13 BP.
; KW ABE66891;
; AC
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 166888 for detecting SNP TSC0041779.
; SN Single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIDENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 166888; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABE00010-ABE99989, ABE00010-ABE99989 and
; CC ABE00010-ABE99989, ABE00010-ABE99989 and
; CC ABE00010-ABE99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 0 C; 0 G; 7 T; 1 other;
; ABE66891 Length: 13 September 17, 2003 14:26 Type: N Check: 7186 ..
; abf66891

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 0; Gaps 0;

QY 2742 AATTAATTCCTT 2754
DB 1 AATTAATTCCTT 13

RESULT 80
abf73130/c
TOIG of: abf73130 check: 6809 from: 1 to: 13
; ID ABE73130 standard; DNA: 13 BP.
; KW ABE73130;
; AC
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 173127 for detecting SNP TSC0043122.
; PN

```

```

; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIDENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 173127; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABE00010-ABE99989, ABE00010-ABE99989 and
; CC ABE00010-ABE99989, ABE00010-ABE99989 and
; CC ABE00010-ABE99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 3 A; 0 C; 3 G; 7 T; 0 other;
; ABE73130 Length: 13 September 17, 2003 14:26 Type: N Check: 6809 ..
; abf73130

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Gaps 0;

QY 2739 CTCATTAAT 2749
DB 12 CTCATTAAT 2

RESULT 81
abf73131
TOIG of: abf73131 check: 6347 from: 1 to: 13
; ID ABE73131 standard; DNA: 13 BP.
; KW ABE73131;
; AC
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 173128 for detecting SNP TSC0043122.
; PN

```

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; XX 18-OCT-2001.
; PD
; XX 06-APR-2001: 2001MO-IB00713.
; PE
; XX 07-APR-2000: 2000DE-1019173.
; PR
; XX (EPiG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
; XX Claim 1; SEQ ID 173128; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 7 A; 3 C; 0 G; 3 T; 0 other;
;
; ABF73131 Length: 13 September 17, 2003 14:26 Type: N Check: 6347 ..
; abf73131
;
Query Match          55.0%: Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 2739 CTCATATAAAT 2749
;
Db 2 CTCATATAAAT 12
;
RESULT 82
; abf73874/G
; TOIG of: abf73874 check: 6850 from: 1 to: 13
;
; ID ABF73874 standard; DNA; 13 BP.
; XX
; AC ABF73874
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 173871 for detecting SNP TSC0043285.
; XX
; SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001: 2001MO-IB00713.
; XX
; PR 07-APR-2000: 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
```

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; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
; XX Claim 1; SEQ ID 173871; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
;
; ABF73874 Length: 13 September 17, 2003 14:26 Type: N Check: 6850 ..
; abf73874
;
Query Match          55.0%: Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 2745 AAAATTCCTTT 2755
;
Db 13 AAAATTCCTTT 3
;
RESULT 83
; abf73875
; TOIG of: abf73875 check: 7088 from: 1 to: 13
;
; ID ABF73875 standard; DNA; 13 BP.
; XX
; AC ABF73875;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 173872 for detecting SNP TSC0043285.
; XX
; SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001: 2001MO-IB00713.
; XX
; PR 07-APR-2000: 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
```

```

; XX Claim 1; SEQ ID 173872; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABF00010-ABF99989 and
; CC AB000010-ABF99989, ABF00010-ABF99989 and
; CC AB000010-ABF99989, ABF00010-ABF99989 and
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SO Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other.
; ABF73875 Length: 13 September 17, 2003 14:26 Type: N Check: 7088 ..
; abf73875

Query Match          55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2745 AAAATTCCTTT 2755
Db 11 AAAATTCCTTT 11

RESULT 84
abf79564/c
; TOIG of: abf79564 check: 6895 from: 1 to: 13
; ID ABF79564 standard; DNA; 13 BP.
; AC ABF79564;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; DE Oligonucleotide SEQ ID NO 179561 for detecting SNP TSC0044450.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; CC Claim 1; SEQ ID 179561; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABF00010-ABF99989 and
; CC AB000010-ABF99989, ABF00010-ABF99989 and
; CC AB000010-ABF99989, ABF00010-ABF99989 and
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SO Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other.
; ABF73875 Length: 13 September 17, 2003 14:26 Type: N Check: 7088 ..
; abf73875

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; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB000010-ABF99989, ABF00010-ABF99989 and
; CC AB000010-ABF99989, ABF00010-ABF99989 and
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SO Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other.
; ABF79564 Length: 13 September 17, 2003 14:26 Type: N Check: 6895 ..
; abf79564

Query Match          55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2745 AAAATTCCTTT 2755
Db 11 AAAATTCCTTT 11

RESULT 85
abf79565
; TOIG of: abf79565 check: 7111 from: 1 to: 13
; ID ABF79565 standard; DNA; 13 BP.
; AC ABF79565;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; DE Oligonucleotide SEQ ID NO 179562 for detecting SNP TSC0044450.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; CC Claim 1; SEQ ID 179562; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABF00010-ABF99989 and
; CC AB000010-ABF99989, ABF00010-ABF99989 and
; CC AB000010-ABF99989, ABF00010-ABF99989 and
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SO Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other.
; ABF79564 Length: 13 September 17, 2003 14:26 Type: N Check: 6895 ..
; abf79564

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; SO Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other;
; AB79565 Length: 13 September 17, 2003 14:26 Type: N Check: 7111 ..
abf79565

Query Match
Best Local Similarity 100.0%; Score 11; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2745 AAAATTCCTTTT 2755
      |||||
      3 AAAATTCCTTTT 13

RESULT 86
abf85966/c
TOIG of: abf85966 check: 6680 from: 1 to: 13

; ID ABR85966 standard; DNA; 13 BP.
; XX
; AC ABR85966;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 185963 for detecting SNP TSC0045828.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDEMIOLOGICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 185963; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABF99989, ABR00010-ABH99989 and
; CC ABR00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 2 G; 2 T; 1 other;
; ABR85966 Length: 13 September 17, 2003 14:26 Type: N Check: 6680 ..
abf85966

Query Match
Best Local Similarity 100.0%; Score 11; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 2747 AATTCCTTCT 2757
      |||||
      11 AATTCCTTCT 1

RESULT 87
abf85967
TOIG of: abf85967 check: 7186 from: 1 to: 13

; ID ABR85967 standard; DNA; 13 BP.
; XX
; AC ABR85967;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 185964 for detecting SNP TSC0045828.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDEMIOLOGICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 185964; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABF99989, ABR00010-ABH99989 and
; CC ABR00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX
; SQ Sequence 13 BP; 2 A; 2 C; 0 G; 8 T; 1 other;
; ABR85967 Length: 13 September 17, 2003 14:26 Type: N Check: 7186 ..
abf85967

Query Match
Best Local Similarity 100.0%; Score 11; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2747 AATTCCTTCT 2757
      |||||
      3 AATTCCTTCT 13

RESULT 88
abf97716/c

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; TOIG of: abf97716 check: 6832 from: 1 to: 13
; ID ABE97716 standard; DNA; 13 BP.
; XX ABE97716;
; AC ABE97716;
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 197713 for detecting SNP TSC0048658.
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS WO200177384-A2.
; PN 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR (EPIC-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; PS Claim 1; SEQ ID 197713; 29pp + Sequence Listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABE00010-ABE99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_ptc_sequences.
; CC Sequence 13 BP; 6 A; 0 C; 1 G; 6 T; 0 other;
; SQ ABE97716 Length: 13 September 17, 2003 14:26 Type: N Check: 6832 ..
; abf97716
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2743 ATAAATTCCT 2753
DB 12 ATAAATTCCT 2

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; DE Oligonucleotide SEQ ID NO 197714 for detecting SNP TSC0048658.
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS WO200177384-A2.
; PN 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR (EPIC-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; PS Claim 1; SEQ ID 197714; 29pp + Sequence Listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABE00010-ABE99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_ptc_sequences.
; CC Sequence 13 BP; 6 A; 1 C; 0 G; 6 T; 0 other;
; SQ ABE97717 Length: 13 September 17, 2003 14:26 Type: N Check: 6771 ..
; abf97717
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2743 ATAAATTCCT 2753
DB 2 ATAAATTCCT 12

```

```

RESULT 89
abf97717
; TOIG of: abf97717 check: 6771 from: 1 to: 13
; ID ABE97717 standard; DNA; 13 BP.
; XX ABE97717;
; AC ABE97717;
; XX 22-FEB-2002 (first entry)
; XX

```

```

RESULT 90
abh00102/c
; TOIG of: abh00102 check: 7060 from: 1 to: 13
; ID ABH00102 standard; DNA; 13 BP.
; XX ABH00102;
; AC ABH00102;
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 200079 for detecting SNP TSC0049233.
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS
; XX

```

```

; PN WO200177384-A2.
; XX 18-OCT-2001.
; PD 06-APR-2801; 2001WO-IB00713.
; XX 07-APR-2000; 2000DE-1019173.
; PR (EPIC-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 200079; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 0 C; 2 G; 4 T; 1 other;
; ABH00102 Length: 13 September 17, 2003 14:26 Type: N Check: 7060 ..
; abh00102

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2745 AAAATCTTTCT 2757
DB 13 RAATACCTTTCT 1

RESULT 91
abh00103
; TOIG of: abh00103 check: 7034 from: 1 to: 13
; ID ABH00103 standard; DNA; 13 BP.
; XX ABH00103;
; AC
; XX 22-FEB-2002 (first entry)
; DT
; XX Oligonucleotide SEQ ID NO 200080 for detecting SNP TSC0049233.
; DE
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR
; XX
```

```

; PA (EPIC-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 200080; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 2 C; 0 G; 6 T; 1 other;
; ABH00103 Length: 13 September 17, 2003 14:26 Type: N Check: 7034 ..
; abh00103

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 2745 AAAATCTTTCT 2757
DB 1 RAATACCTTTCT 13

RESULT 92
abh00464
; TOIG of: abh00464 check: 7044 from: 1 to: 13
; ID ABH00464 standard; DNA; 13 BP.
; XX ABH00464;
; AC
; XX 22-FEB-2002 (first entry)
; DT
; XX Oligonucleotide SEQ ID NO 200441 for detecting SNP TSC0049322.
; DE
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPIC-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
```



```

; PT methylation status -
; XX
; PS Claim 1: SEQ ID 200441; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 7 A; 0 C; 0 G; 5 T; 1 other;
; ABH00464 Length: 13 September 17, 2003 14:26 Type: N Check: 7044 ..
; abh00464
;
; Query Match 55.0%; Score 11; DB 1; Length 13;
; Best Local Similarity 84.6%; Pred. No. 90;
; Matches 11; Conservative 1; Mismatches 0; Gaps 0;
;
; OY 2742 AATPAAATTCCTT 2754
; Db 1 AATPAAATTCCTT 13
;
; RESULT 93
; abh00465/c
; TOIG of: abh00465 check: 7129 from: 1 to: 13
;
; ID ABH00465 standard; DNA: 13 BP.
; XX
; AC ABH00465;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 200442 for detecting SNP TSC0049322.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI: 2001-657177/75.
; XX
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status -
; XX
; PS Claim 1: SEQ ID 200442; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.

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; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 5 A; 0 C; 0 G; 7 T; 1 other;
; ABH00465 Length: 13 September 17, 2003 14:26 Type: N Check: 7129 ..
; abh00465
;
; Query Match 55.0%; Score 11; DB 1; Length 13;
; Best Local Similarity 84.6%; Pred. No. 90;
; Matches 11; Conservative 1; Mismatches 0; Gaps 0;
;
; OY 2742 AATPAAATTCCTT 2754
; Db 13 AATPAAATTCCTT 1
;
; RESULT 94
; abh30780/c
; TOIG of: abh30780 check: 7015 from: 1 to: 13
;
; ID ABH30780 standard; DNA: 13 BP.
; XX
; AC ABH30780;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 230757 for detecting SNP TSC0056273.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI: 2001-657177/75.
; XX
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status -
; XX
; PS Claim 1: SEQ ID 230757; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.

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XX Sequence 13 BP; 6 A; 0 C; 1 G; 6 T; 0 other;
ABH30780 Length: 13 September 17, 2003 14:26 Type: N Check: 7015
abH30780

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2745 AAAATTCCTTT 2755
Db 12 AAAATTCCTTT 2

RESULT 95
abH30781
TOIG of: abH30781 check: 6976 from: 1 to: 13
ID ABH30781 standard; DNA; 13 BP.
XX
XX ABH30781;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 230758 for detecting SNP TSC0056273.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1: SEQ ID 230758; 29pp + sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
XX ABH00010-ABH82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 6 A; 1 C; 0 G; 6 T; 0 other;
XX
XX ABH30781 Length: 13 September 17, 2003 14:26 Type: N Check: 6976
XX abH30781

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;

Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2745 AAAATTCCTTT 2755
Db 2 AAAATTCCTTT 12

RESULT 96
abH49596/C
TOIG of: abH49596 check: 6886 from: 1 to: 13
ID ABH49596 standard; DNA; 13 BP.
XX
XX ABH49596;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 249573 for detecting SNP TSC0060967.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX Claim 1: SEQ ID 249573; 29pp + sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
XX ABH00010-ABH82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
XX
XX ABH49596 Length: 13 September 17, 2003 14:26 Type: N Check: 6886
XX abH49596

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2740 TCAATTAATTT 2750
Db 13 TCAATTAATTT 3

RESULT 97


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; XX WO200177384-A2.
; PA
; PI
; PD 18-OCT-2001.
; PE
; PF 06-APR-2001; 2001WO-IB00713.
; PG
; PH 07-APR-2000; 2000DE-1019173.
; PI
; PA (EPIC-) EPIGENOMICS AG.
; PI
; PI Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 264464; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, cardiovascular, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX
; SQ Sequence 13 BP; 6 A; 4 C; 0 G; 3 T; 0 other;
; ABH64487 Length: 13 September 17, 2003 14:26 Type: N Check: 6373 ..
; abh64487
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2739 CTCATTAAT 2749
Db 2 CTCATTAAT 12
RESULT 100
abh66668/C
; TOIG of: abh66668 check: 7093 from: 1 to: 13
; ID ABH66668 standard; DNA; 13 BP.
; XX
; XX ABH66668;
; AC
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 266645 for detecting SNP TSC0064610.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS
; XX WO200177384-A2.
; PA
; PI
; PD 18-OCT-2001.
; PE
; PF 06-APR-2001; 2001WO-IB00713.
; PG
; PH 07-APR-2000; 2000DE-1019173.
; PI
; PI

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```

; XX (EPIC-) EPIGENOMICS AG.
; PA
; PI
; PD Olek A, Piepenbrock C, Berlin K;
; PE
; PF WPI; 2001-657177/75.
; PG
; PH
; PI Set of oligonucleotides, useful for diagnosis and cell typing, is
; PI designed to detect single nucleotide polymorphisms and cytosine
; PI methylation status.
; PS Claim 1; SEQ ID 266645; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX
; SQ Sequence 13 BP; 6 A; 0 C; 1 G; 5 T; 1 other;
; ABH66668 Length: 13 September 17, 2003 14:26 Type: N Check: 7093 ..
; abh66668
Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 2743 ATAAATCTTCTT 2755
Db 13 RTAAATCTTCTT 1
RESULT 101
abh66669
; TOIG of: abh66669 check: 6995 from: 1 to: 13
; ID ABH66669 standard; DNA; 13 BP.
; XX
; XX ABH66669;
; AC
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 266646 for detecting SNP TSC0064610.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS
; XX WO200177384-A2.
; PA
; PI
; PD 18-OCT-2001
; PE
; PF 06-APR-2001; 2001WO-IB00713.
; PG
; PH 07-APR-2000; 2000DE-1019173.
; PI
; PI (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is

```

```
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX Claim 1; SEQ ID 266646; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC000010-ABC99989, ABF00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcr_sequences.
XX
XX Sequence 13 BP; 5 A; 1 C; 0 G; 6 T; 1 other;
XX
XX ABH66669 Length: 13 September 17, 2003 14:26 Type: N Check: 6995 ..
abn66669

Query Match 55.0%; Score 11; DB 1; Length 13;
Best Local Similarity 84.6%; Pred. No. 90;
Matches 11; Conservative 1; Mismatches 0; Gaps 0;

QY 2743 ATAAATCTTT 2755
Db 1 RTAAATCTTT 13

RESULT 103
abc20140/c
TOIG of: abc20140 check: 7068 from: 1 to: 13
XX ID ABC20140 standard; DNA; 13 BP.
XX AC ABC20140
XX
XX 20-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 20157 for detecting SNP TSC0004135.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI: 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 20157; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX methylation status in chemically pretreated genomic DNA. The
```

```
CC Oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC000010-ABC99989, ABF00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcr_sequences.
XX
XX Sequence 13 BP; 2 A; 0 C; 3 G; 7 T; 1 other;
XX
XX ABC20140 Length: 13 September 17, 2003 14:26 Type: N Check: 7068 ..
abc20140

Query Match 53.0%; Score 10.6; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 1.1e+02;
Matches 10; Conservative 1; Mismatches 0; Gaps 0;

QY 2738 GCTCAATATAA 2748
Db 13 RCTCAATATAA 3

RESULT 103
abc20141
TOIG of: abc20141 check: 6160 from: 1 to: 13
XX ID ABC20141 standard; DNA; 13 BP.
XX AC ABC20141;
XX
XX 20-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 20158 for detecting SNP TSC0004135.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI: 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 20158; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC000010-ABC99989, ABF00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
```

CC ftp.wipo.int/pub/published_pct_sequences.
 XX Sequence 13 BP; 7 A; 3 C; 0 G; 2 T; 1 other;
 SQ ABC20141 Length: 13 September 17, 2003 14:26 Type: N Check: 6160 ..
 abc20141

Query Match 53.0%; Score 10.6; DB 1; Length 13;
 Best Local Similarity 90.9%; Pred. No. 1.1e+02;
 Matches 10; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 OY 2738 GGTCAATATAA 2748
 DB 1 RCTCAATATAA 11

RESULT 104
 abc49836/c
 TOIG of: abc49836 check: 6915 from: 1 to: 13
 ID ABC49836 standard; DNA: 13 BP.
 XX ABC49836;
 AC
 XX 21-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 49853 for detecting SNP TSC0014061.
 XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
 OS Homo sapiens.
 XX WO200177384-A2.
 PN 18-OCT-2001.
 PD 06-APR-2001; 2001WO-IB00713.
 PF 07-APR-2000; 2000DE-1019173.
 PR (EPIC-) EPIGENOMICS AG.
 PA
 XX Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 DR Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 PS Claim 1: SEQ ID 49853; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABR00010-ABF9989, ABH0010-ABH9989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 13 BP; 7 A; 0 C; 1 G; 4 T; 1 other;
 ABC49836 Length: 13 September 17, 2003 14:26 Type: N Check: 6915 ..
 abc49836
 Query Match 53.0%; Score 10.6; DB 1; Length 13;

Best Local Similarity 90.9%; Pred. No. 1.1e+02;
 Matches 10; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 OY 2745 AAAATTCCTTT 2755
 DB 13 RAAATTCCTTT 3

RESULT 105
 abc49837
 TOIG of: abc49837 check: 7105 from: 1 to: 13
 ID ABC49837 standard; DNA: 13 BP.
 XX ABC49837;
 AC
 XX 21-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 49854 for detecting SNP TSC0014061.
 XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
 OS Homo sapiens.
 XX WO200177384-A2.
 PN 18-OCT-2001.
 PD 06-APR-2001; 2001WO-IB00713.
 PF 07-APR-2000; 2000DE-1019173.
 PR (EPIC-) EPIGENOMICS AG.
 PA
 XX Olek A, Piepenbrock C, Berlin K;
 PI WPI; 2001-657177/75.
 DR Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 XX
 PS Claim 1: SEQ ID 49854; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABR00010-ABF9989, ABH0010-ABH9989 and
 CC ABI00010-ABI82073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 13 BP; 4 A; 1 C; 0 G; 7 T; 1 other;
 ABC49837 Length: 13 September 17, 2003 14:26 Type: N Check: 7105 ..
 abc49837
 Query Match 53.0%; Score 10.6; DB 1; Length 13;
 Best Local Similarity 90.9%; Pred. No. 1.1e+02;
 Matches 10; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 OY 2745 AAAATTCCTTT 2755
 DB 1 RAAATTCCTTT 11

```

RESULT 106
abc84986/c
; TOIG of: abc84986 check: 7010 from: 1 to: 13
; ID ABf84986 standard; DNA; 13 BP.
; AC ABf84986;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 85003 for detecting SNP TSC0021381.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-1B00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 85003; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABf00010-ABf99989, ABf00010-ABf99989, ABf00010-ABf99989 and
; CC ABf00010-ABf82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 0 C; 2 G; 5 T; 1 other;
; ABC84986 Length: 13 September 17, 2003 14:26 Type: N Check: 7010 ..
; abc84986

Query Match 53.0%; Score 10.6; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 1.1e+02;
Matches 10; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2743 ATAAATTCCTT 2753
Db 13 RTAAATTCCTT 3

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; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 85004 for detecting SNP TSC0021381.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-1B00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 85004; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABf00010-ABf99989, ABf00010-ABf99989, ABf00010-ABf99989 and
; CC ABf00010-ABf82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 2 C; 0 G; 5 T; 1 other;
; ABC84987 Length: 13 September 17, 2003 14:26 Type: N Check: 6696 ..
; abc84987

Query Match 53.0%; Score 10.6; DB 1; Length 13;
Best Local Similarity 90.9%; Pred. No. 1.1e+02;
Matches 10; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

OY 2743 ATAAATTCCTT 2753
Db 1 RTAAATTCCTT 11

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RESULT 108
abf41664/c
; TOIG of: abf41664 check: 7081 from: 1 to: 13
; ID ABf41664 standard; DNA; 13 BP.
; AC ABf41664;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 141661 for detecting SNP TSC0035491.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

```


PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX
PS Claim 1; SEQ ID 267803; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcr_sequences.
XX
SQ Sequence 12 BP; 5 A; 0 C; 1 G; 6 T; 0 other;
ABH67826 Length: 12 September 17, 2003 14:26 Type: N Check: 6177 ..
abh67826

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2743 ATAAATCTCTT 2754
Db 12 AAAAATCTCTT 1

RESULT 111
abh68859

TOIG of: abh68859 check: 5830 from: 1 to: 12

ABH68859 standard; DNA; 12 BP.

AC ABH68859;

DT 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 268836 for detecting SNP TSC0001449.

DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-1B00713.

XX 07-APR-2000; 2000DE-1019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX
PS Claim 1; SEQ ID 268836; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcr_sequences.
XX
SQ Sequence 12 BP; 5 A; 2 C; 0 G; 5 T; 0 other;
ABH68859 Length: 12 September 17, 2003 14:26 Type: N Check: 5830 ..
abh68859

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2745 AAAATCTCTTC 2756
Db 1 AAAATCTCTTAC 12

RESULT 112
abh70875/c

TOIG of: abh70875 check: 5943 from: 1 to: 12

ABH70875 standard; DNA; 12 BP.

AC ABH70875;

DT 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 270852 for detecting SNP TSC0002300.

DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-1B00713.

XX 07-APR-2000; 2000DE-1019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX
PS Claim 1; SEQ ID 270852; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 6 A; 0 C; 1 G; 5 T; 0 other;
ABH70875 Length: 12 September 17, 2003 14:26 Type: N Check: 5943 ..
abh70875

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATAAATTCCT 2753
12 AATAAATTCCT 1

Db 12 AATAAATTCCT 1

RESULT 413
abh71007/c
TOIG Of: abh71007 check: 5561 from: 1 to: 12

ID ABH71007 standard; DNA; 12 BP.

AC ABH71007;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 270984 for detecting SNP TSC0002347.

SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;

peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;

central nervous system; gastrointestinal; respiratory; Immune; metabolic.

Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB00713.

07-APR-2000; 2000DE-1019173.

(EPIG-) EPIGENOMICS AG.

Olek A, Plepenbrock C, Berlin K;

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is

designed to detect single nucleotide polymorphisms and cytosine

methylation status -

Claim 1; SEQ ID 270984; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. CC ABC00010-ABG9989, ABH00010-ABH9989 and CC ABH00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 12 BP; 8 A; 0 C; 2 G; 2 T; 0 other;

ABH71007 Length: 12 September 17, 2003 14:26 Type: N Check: 5561 ..
abh71007

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2746 AATTCCTTCCT 2757
12 AATTCCTTCCT 1

Db

RESULT 114
abh72258/c
TOIG Of: abh72258 check: 6285 from: 1 to: 12

ID ABH72258 standard; DNA; 12 BP.

AC ABH72258;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 272237 for detecting SNP TSC0002748.

SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;

peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;

central nervous system; gastrointestinal; respiratory; Immune; metabolic.

Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB00713.

07-APR-2000; 2000DE-1019173.

(EPIG-) EPIGENOMICS AG.

Olek A, Plepenbrock C, Berlin K;

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is

designed to detect single nucleotide polymorphisms and cytosine

methylation status -

Claim 1; SEQ ID 272237; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. CC ABC00010-ABG9989, ABH00010-ABH9989 and CC ABH00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;

ABH72258 Length: 12 September 17, 2003 14:26 Type: N Check: 6285 ..
abh72258

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATAAATTCCT 2753
12 AATAAATTCCT 1

Db 12 AATAAATTCCT 1

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RESULT 115
abht5304
; TOIG of: abht5304 check: 6020 from: 1 to: 12
; ID ABH75304 standard; DNA; 12 BP.
; XX
; AC ABH75304;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 275295 for detecting SNP TSC0003854.
; XX
; DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 275295; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 6 A; 0 C; 0 G; 6 T; 0 other;
; ABH75304 Length: 12 September 17, 2003 14:26 Type: N Check: 6020 ..
abht5304
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2743 ATAAATTCCTT 2754
Db 1 ATAAATTCCTT 12

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; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 278342 for detecting SNP TSC0005913.
; XX
; DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 278342; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
; ABH78349 Length: 12 September 17, 2003 14:26 Type: N Check: 6083 ..
abht8349
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2742 ATAAATTCCTT 2753
Db 12 ATAAATTCCTT 1

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RESULT 116
abht8349/c
; TOIG of: abht8349 check: 6083 from: 1 to: 12
; ID ABH78349 standard; DNA; 12 BP.
; XX
; AC ABH78349;
; XX

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; ID ABH79446 standard; DNA; 12 BP.
; XX
; AC ABH79446;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 279439 for detecting SNP TSC0007377.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

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; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; CC Claim 1; SEQ ID 279439; 299p + Sequence listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; CC
; CC Sequence 12 BP; 4 A; 2 C; 0 G; 6 T; 0 other;
; SQ
; ABH79446 Length: 12 September 17, 2003 14:26 Type: N Check: 6050 ..
; abh79446

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 TAAATTCCTT 2754
DB 1 TAAACTCTCTT 12

RESULT 118
abh81016/c check: 5792 from: 1 to: 12
; TOIG of: abh81016 standard; DNA: 12 BP.
; ID ABH81016 standard; DNA: 12 BP.
; XX
; AC ABH81016;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 281009 for detecting SNP TSC0009306.
; XX
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; CC Claim 1; SEQ ID 281009; 299p + Sequence listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; CC
; CC Sequence 12 BP; 4 A; 2 C; 0 G; 6 T; 0 other;
; SQ
; ABH79446 Length: 12 September 17, 2003 14:26 Type: N Check: 6050 ..
; abh79446
```

```

; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; CC Claim 1; SEQ ID 281009; 299p + Sequence listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; CC
; CC Sequence 12 BP; 8 A; 0 C; 0 G; 4 T; 0 other;
; SQ
; ABH81016 Length: 12 September 17, 2003 14:26 Type: N Check: 5792 ..
; abh81016

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTT 2755
DB 12 TAAATTTTCTT 1

RESULT 119
abh81374/c check: 5997 from: 1 to: 12
; TOIG of: abh81374 standard; DNA: 12 BP.
; ID ABH81374 standard; DNA: 12 BP.
; XX
; AC ABH81374;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 281367 for detecting SNP TSC0009689.
; XX
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; CC Claim 1; SEQ ID 281009; 299p + Sequence listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; CC
; CC Sequence 12 BP; 8 A; 0 C; 0 G; 4 T; 0 other;
; SQ
; ABH81016 Length: 12 September 17, 2003 14:26 Type: N Check: 5792 ..
; abh81016
```

```

; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 281367; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 12 BP: 4 A; 2 G; 0 G; 6 T; 0 other;
; SQ
; ABH81374 Length: 12 September 17, 2003 14:26 Type: N Check: 5997
; abh81374
;
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
OY 2746 AATTCCTTCT 2757
DB 1 AATTCCTTCT 12
;
RESULT 120
abh81435
; TOIG of: abh81435 check: 6134 from: 1 to: 12
; ID ABH81435 standard; DNA; 12 BP.
; XX
; AC ABH81435;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 281428 for detecting SNP TSC0009749.
; XX
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; OS
; PN WO200177384-A2.
; PN
; PD 18-OCT-2001.
; PD
; PF 06-APR-2001; 2001WO-IB00713.
; PF
; PR 07-APR-2000; 2000DE-1019173.
; PR
; PA (EPIC-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; PI
; PS WPI: 2001-657177/75.
; PS
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 281428; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic

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; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 12 BP: 5 A; 0 G; 0 G; 7 T; 0 other;
; SQ
; ABH81435 Length: 12 September 17, 2003 14:26 Type: N Check: 6134
; abh81435
;
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
OY 2744 TAAATCTCTT 2755
DB 1 TAAATCTCTT 12
;
RESULT 121
abh82530
; TOIG of: abh82530 check: 6000 from: 1 to: 12
; ID ABH82530 standard; DNA; 12 BP.
; XX
; AC ABH82530;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 282523 for detecting SNP TSC0010851.
; XX
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; OS
; PN WO200177384-A2.
; PN
; PD 18-OCT-2001.
; PD
; PF 06-APR-2001; 2001WO-IB00713.
; PF
; PR 07-APR-2000; 2000DE-1019173.
; PR
; PA (EPIC-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; PI
; PS WPI: 2001-657177/75.
; PS
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 282523; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.

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NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

ABH82530 Length: 12 September 17, 2003 14:26 Type: N Check: 6000 ..

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2743 ATAAATTCCTT 2754
1 AAAAAATCTTT 12

RESULT 122
abH83536/c
TOIG OF: abH83536 check: 5887 from: 1 to: 12

ID ABH83536 standard; DNA; 12 BP.
AC ABH83536;
XX
XX 22-FEB-2002 (first entry)
DE Oligonucleotide primer SEQ ID NO 283529 for detecting SNP TSC001363.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX OS
XX WO200177384-A2.
XX PN
XX 18-OCT-2001.
XX PD
XX 06-APR-2001; 2001WO-IB00713.
XX PE
XX 07-APR-2000; 2800DE-1019173.
XX PR
XX (EPIC-) EPIGENOMICS AG.
XX PA
XX Olek A, Piepenbrock C, Berlin K;
XX PI
XX WPI; 2001-657177/75.
XX DR
XX
XX Set of oligonucleotides useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX
XX Claim 1; SEQ ID 283529; 29pp + Sequence listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

ABH00010-ABH99989, ABH00010-ABH99989, ABH00010-ABH99989 and ABH00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 12 BP; 7 A; 0 C; 0 G; 5 T; 0 other;

ABH83536 Length: 12 September 17, 2003 14:26 Type: N Check: 5887 ..

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2744 TAAATTCCTT 2755
12 TAAATTCCTT 1

RESULT 123
abH87844/c
TOIG OF: abH87844 check: 5944 from: 1 to: 12

ID ABH87844 standard; DNA; 12 BP.
AC ABH87844;
XX
XX 22-FEB-2002 (first entry)
DE Oligonucleotide primer SEQ ID NO 287837 for detecting SNP TSC0013271.
XX
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX OS
XX WO200177384-A2.
XX PN
XX 18-OCT-2001.
XX PD
XX 06-APR-2001; 2001WO-IB00713.
XX PE
XX 07-APR-2000; 2000DE-1019173.
XX PR
XX (EPIC-) EPIGENOMICS AG.
XX PA
XX Olek A, Piepenbrock C, Berlin K;
XX PI
XX WPI; 2001-657177/75.
XX DR
XX
XX Set of oligonucleotides useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
XX
XX Claim 1; SEQ ID 287837; 29pp + Sequence listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

ABH00010-ABH99989, ABH00010-ABH99989, ABH00010-ABH99989 and ABH00010-ABH82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 12 BP; 7 A; 0 C; 0 G; 5 T; 0 other;

ABH87844 Length: 12 September 17, 2003 14:26 Type: N Check: 5944 ..

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2743 ATAAATTCCTT 2754
12 AAAAAATCTTT 1

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RESULT 124
abH88434
TOIG of: abH88434 check: 5606 from: 1 to: 12
; ID ABH88434 standard; DNA; 12 BP.
; AC ABH88434;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 288427 for detecting SNP TSC0013505.
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS
; XX Claim 1; SEQ ID 288427; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, AB000010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 12 BP; 6 A; 3 C; 0 G; 3 T; 0 other:
; SQ
; ABH88434 Length: 12 September 17, 2003 14:26 Type: N Check: 5606 ..
; abH88434
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; ID 2741 CAATAAATTCCT 2752
; AC 1 CAATAAATTCCT 12
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 291800 for detecting SNP TSC0014935.
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW
; OS
; PN
; PD
; PF
; PR
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS
; XX Claim 1; SEQ ID 289431; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, AB000010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other:
; SQ
; ABH89438 Length: 12 September 17, 2003 14:26 Type: N Check: 6000 ..
; abH89438
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; ID 2739 CTCATTAATTCCT 2750
; AC 12 CTCATTAATTCCT 1
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 291800 for detecting SNP TSC0014935.
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW

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; AC ABH89438;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 289431 for detecting SNP TSC0013933.
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS
; XX Claim 1; SEQ ID 289431; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, AB000010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other:
; SQ
; ABH89438 Length: 12 September 17, 2003 14:26 Type: N Check: 6000 ..
; abH89438
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; ID 2739 CTCATTAATTCCT 2750
; AC 12 CTCATTAATTCCT 1
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 291800 for detecting SNP TSC0014935.
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW

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```

; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS WO200177384-A2.
; PN 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR (EPIG-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1: SEQ ID 291800; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ARI00010-ARI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences
; XX
; SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
; ABH91807 Length: 12 September 17, 2003 14:26 Type: N Check: 5857 ..
; abh91807

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2741 CATTAAATTCCT 2752
Db 12 CATTAAATTCCT 1

RESULT 127
abh92711/c
; TOIG of: abh92711 check: 6077 from: 1 to: 12
; ID ABH92711 standard; DNA: 12 BP.
; XX
; AC ABH92711;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 292704 for detecting SNP TSC0015311.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.

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; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PN (EPIG-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1: SEQ ID 292704; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ARI00010-ARI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 6 A; 0 C; 0 G; 6 T; 0 other;
; ABH92711 Length: 12 September 17, 2003 14:26 Type: N Check: 6077 ..
; abh92711

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATAAAATTCCT 2753
Db 12 AATAAAATTCCT 1

RESULT 128
abh93028
; TOIG of: abh93028 check: 5886 from: 1 to: 12
; ID ABH93028 standard; DNA: 12 BP.
; XX
; AC ABH93028;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 293021 for detecting SNP TSC0015465.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; XX

```



```

; DR WPI: 2001-657177/75.
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1: SEQ ID 293021; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABF00010-ABF99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other:
; ABH93028 Length: 12 September 17, 2003 14:26 Type: N Check: 5886 ..
; abh93028
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2743 AATAAATCTTT 2754
; 1111111111
; Db 1 AATAAATCTTT 12
;
; RESULT 129
; abh95312/c
; TOIG of: abh95312 check: 5978 from: 1 to: 12
;
; ID ABH95312 standard; DNA: 12 BP.
; XX
; AC ABH95312
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 295305 for detecting SNP TSC0016530.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1: SEQ ID 295305; 29pp + Sequence Listing; German.
; CC
```

```

; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABF00010-ABF99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other:
; ABH95312 Length: 12 September 17, 2003 14:26 Type: N Check: 5978 ..
; abh95312
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2742 AATAAATCTTT 2753
; 1111111111
; Db 12 AATAAATCTTT 1
;
; RESULT 130
; abh95466/c
; TOIG of: abh95466 check: 5986 from: 1 to: 12
;
; ID ABH95466 standard; DNA: 12 BP.
; XX
; AC ABH95466;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 295459 for detecting SNP TSC0016596.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1: SEQ ID 295459; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABF00010-ABF99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
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CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcr_sequences.
CC
CC SO Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
; ABH95466 Length: 12 September 17, 2003 14:26 Type: N Check: 5986 ..
; abh95466
Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2743 ATAAATTCCTT 2754
DB 12 ATAAATTCCTT 1
RESULT 131
abh96223/c
TOIG OF: abh96223 check: 5750 from: 1 to: 12
; ID ABH96223 standard; DNA; 12 BP.
; AC ABH96223;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 296216 for detecting SNP TSC0016961.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 296216; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABH99989, ABH00010-ABH99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 3 G; 5 T; 0 other;
; ABH96223 Length: 12 September 17, 2003 14:26 Type: N Check: 5750 ..
```

```
abh96223
Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2739 CTCATTAATTT 2750
DB 12 CTCATTAATTT 1
RESULT 132
abh98281/c
TOIG OF: abh98281 check: 5632 from: 1 to: 12
; ID ABH98281 standard; DNA; 12 BP.
; AC ABH98281;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 298274 for detecting SNP TSC0018004.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 298274; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABH99989, ABH00010-ABH99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 12 BP; 8 A; 0 C; 1 G; 3 T; 0 other;
; ABH98281 Length: 12 September 17, 2003 14:26 Type: N Check: 5632 ..
; abh98281
Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2744 TAAATTCCTT 2755
DB 12 TAAATTCCTT 1
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DB          12  TATATCTCTTT 1
RESULT 133
Ab101463
TOIG of: Ab101463 check: 6025 from: 1 to: 12
; ID AB101463 standard; DNA; 12 BP.
; XX
; AC AB101463;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 301436 for detecting SNP TSC0019504.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO1B00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 301436; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
; AB101463 Length: 12 September 17, 2003 14:26 Type: N Check: 6025 ..
Ab101463
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2745 AAAATCTTTC 2756
||||| |||||
Db 1 AAAATTATTTTC 12
RESULT 134
Ab104056
TOIG of: Ab104056 check: 5905 from: 1 to: 12
; ID AB104056 standard; DNA; 12 BP.

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```

: XX      AB104056;
: AC      22-FEB-2002 (first entry)
: XX
: XX
: DE      Oligonucleotide primer SEQ ID NO 304029 for detecting SNP TSC00209753.
: DE
: XX
: XX      SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: XX      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: XX      central nervous system; gastrointestinal; respiratory; immune; metabolic.
: XX      Homo sapiens.
: XX      WO200177384-A2.
: XX      PD      18-OCT-2001.
: XX      PF      06-APR-2001; 2001WO-1B00713.
: XX      PR      07-APR-2000; 2000DE-1019173.
: XX      PA      (EPIG-) EPIGENOMICS AG.
: XX      PI      Olek A, Piepenbrock C, Berlin K;
: XX      DR      WPI; 2001-65717/75.
: XX      PT      Set of oligonucleotides, useful for diagnosis and cell typing, is
: XX      PT      designed to detect single nucleotide polymorphisms and cytosine
: XX      PT      methylation status
: XX
: PS      Claim 1; SEQ ID 304029; 29pp + Sequence Listing; German.
: XX
: XX      This invention describes novel oligonucleotide primers or peptide nucleic
: XX      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: XX      and cytosine methylation status in chemically pretreated genomic DNA. The
: XX      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: XX      range of diseases including immune system, cardiovascular and metabolic disorders. The
: XX      central nervous system, cardiovascular and metabolic disorders. The
: XX      CC      oligomers are also used for detecting cell type differentiation.
: XX      CC      ABC000010-ABC999989, ABF00010-ABF999989, ABH00010-ABH999989 and
: XX      CC      AB100010-AB182073 represent the oligomers described in the invention.
: XX      CC      NOTE: The sequence data for this patent did not form part of the printed
: XX      CC      specification, but was obtained in electronic format from WIPO at
: XX      CC      ftp://ipo.int/pub/published_pct_sequences.
: XX
: SQ      Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other:
:
: AB104056 Length: 12 September 17, 2003 14:26 Type: N Check: 5905 ..
: AB104056
:
: Query Match          52.0%; Score 10.4; DB 1; Length 12;
: Best Local Similarity 91.7%; Pred. No. 1.2e+02;
: Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
:
: QY      2743 ATAAATTCCTT 2754
:         ||||| |||||
:         1 ATAAATTCCTT 12
:
: Db
:
: RESULT 135
: AB104534
:   TOIG of: ab104534 check: 5683 from: 1 to: 12
:
: ID      AB104534 standard; DNA; 12 BP.
: XX
: AC      AB104534;
: XX
: XX      22-FEB-2002 (first entry)
: XX
: DE      Oligonucleotide primer SEQ ID NO 304507 for detecting SNP TSC0020972.
: DE
: XX      SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

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; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; XX WO200177384-A2.
; XX PD 18-OCT-2001.
; XX 06-APR-2001; 2001WO-IB00713.
; XX 07-APR-2000; 2000DE-1019173.
; XX (EPIG-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 304507; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; AB104534 Length: 12 September 17, 2003 14:26 Type: N Check: 5683 ..
; ab104534
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2741 CAATAAATTCCT 2752
DB 1 CAAAAAATTCCT 12
RESULT 136
ab105436/c
; TOIG of: ab105436 check: 5969 from: 1 to: 12
; ID AB105436 standard; DNA; 12 BP.
; XX
; AC AB105436;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 305409 for detecting SNP TSC0021429.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX
; PD 18-OCT-2001.

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; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIG-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 305409; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 3 G; 5 T; 0 other;
; AB105436 Length: 12 September 17, 2003 14:26 Type: N Check: 5969 ..
; ab105436
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2741 CAATAAATTCCT 2752
DB 12 CAATAAATTCCT 1
RESULT 137
ab108786
; TOIG of: ab108786 check: 5458 from: 1 to: 12
; ID AB108786 standard; DNA; 12 BP.
; XX
; AC AB108786;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 308759 for detecting SNP TSC0023206.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;

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: XX WPI: 2001-657177/75.
: DR
: XX Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status
: XX
: PS Claim 1: SEQ ID 308759; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC AB100010-AB182073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pct_sequences.
: CC
: XX
: SQ Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
: AB108786 Length: 12 September 17, 2003 14:26 Type: N Check: 5458 ..
: ab108786
:
: Query Match 52.0%; Score 10.4; DB 1; Length 12;
: Best Local Similarity 91.7%; Pred. No. 1.2e+02;
: Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
:
: QY 2739 CTCGATTAAT 2750
: |||||
: |||||
: |||||
:
: Db 1 CTCGATTAAT 12
:
: RESULT 138
: ab112429
:
: TOIG of: ab112429 check: 5737 from: 1 to: 12
:
: ID AB112429 standard; DNA; 12 BP.
: XX
: AC AB112429;
: XX
: DT 22-FEB-2002 (first entry)
: XX
: OL Oligonucleotide primer SEQ ID NO 312402 for detecting SNP TSC0025040.
: DE
: KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KW central nervous system; gastrointestinal; respiratory; immune; metabolic
: XX
: OS Homo sapiens.
: XX
: PN WO200177384-A2.
: XX
: PD 18-OCT-2001.
: XX
: PF 06-APR-2001; 2001WO-IB00713.
: XX
: PR 07-APR-2000; 2000DE-1019173.
: XX
: PA (EPIC-) EPIGENOMICS AG.
: XX
: PI Olek A, Piepenbrock C, Berlin K;
: XX
: DR WPI: 2001-657177/75.
: XX
: PT set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status
: XX
: PS Claim 1: SEQ ID 312402; 29pp + Sequence Listing; German.

```

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

AB000010-AB09989, ABF00010-ABF9989, ABH00010-ABH9989 and ABM00010-ABM9989 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at http://wipo.int/pub/published_pct_sequences.

Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;

AB112429 Length: 12 September 17, 2003 14:26 Type: N Check: 5737 ..
 ab112429

Query Match	52.0%;	Score 10.4;	DB 1;	Length 12;
Best Local Similarity	91.7%;	Pred. No. 1.2e+02;		
Matches 11; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;
OY 2741 CAATTAATAATCT 2752				
Db 1 CAATTAATAATAT 12				

RESULT 139
 ab114201
 TOIG of: ab114201 check: 5480 from: 1 to: 12

ID	AB114201 standard; DNA; 12 BP.
XX	AB114201;
AC	22-FEB-2002 (first entry)
XX	Oligonucleotide primer SEQ ID NO 314174 for detecting SNP TSC0026161.
DE	SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW	central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS	Homo sapiens.
XX	WO200177384-A2.
PN	18-OCT-2001.
XX	06-APR-2001; 2001WO-IB00713.
PF	07-APR-2000; 2000DE-1019173.
PR	(EPIG-) EPIGENOMICS AG.
XX	Olek A, Piepenbrock C, Berlin K;
XX	WPI; 2001-657177/75.
DR	Set of oligonucleotides, useful for diagnosis and cell typing, is
XX	designed to detect single nucleotide polymorphisms and cytosine
PT	methylation status -
XX	Claim 1; SEQ ID 314174; 29pp + Sequence Listing; German.
PS	This invention describes novel oligonucleotide primers or peptide nucleic
XX	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	range of diseases including immune system, gastrointestinal, respiratory,
CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligomers are also used for detecting cell type differentiation.
CC	AB000010-AB09989, ABF00010-ABF9989, ABH00010-ABH9989 and
CC	ABM00010-ABM9989 represent the oligomers described in the invention.
CC	NOTE: The sequence data for this patent did not form part of the printed
CC	specification, but was obtained in electronic format from WIPO at
CC	http://wipo.int/pub/published_pct_sequences .
CC	Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
CC	AB112429 Length: 12 September 17, 2003 14:26 Type: N Check: 5737 ..
CC	ab112429

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH99989 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pcl_sequences.
XX
SO Sequence 12 BP; 6 A; 3 C; 0 G; 3 T; 0 other;
ABH14201 Length: 12 September 17, 2003 14:26 Type: N Check: 5480 ..
ab114201

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2739 CTCGATGTAAT 2750
Db 1 CTCGATGTAAT 12

RESULT 140
ab116938/C
TOIG of: ab116938 check: 5928 from: 1 to: 12

ID ABH16938 standard; DNA; 12 BP.

AC ABH16938;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 316911 for detecting SNP TSC0027682.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PS WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status

XX Claim 1; SEQ ID 316911; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH99989 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pcl_sequences.

XX Sequence 12 BP; 5 A; 0 C; 3 G; 4 T; 0 other;

ABH16938 Length: 12 September 17, 2003 14:26 Type: N Check: 5928 ..
ab116938

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2745 AAAATCTCTTC 2756
Db 12 AAAATCTCTTC 1

RESULT 141
ab119268/C
TOIG of: ab119268 check: 5802 from: 1 to: 12

ID ABH19268 standard; DNA; 12 BP.

AC ABH19268;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 319241 for detecting SNP TSC0029130.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PS WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status

XX Claim 1; SEQ ID 319241; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH99989 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pcl_sequences.

XX Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;

ABH19268 Length: 12 September 17, 2003 14:26 Type: N Check: 5802 ..
ab119268

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATCTCTTC 2755

Db 12 TAAATAATTCAT 1

RESULT 142
ab119961/c

TOIG of: ab119961 check: 6133 from: 1 to: 12

ID AB119961 standard; DNA; 12 BP.

XX AC AB119961;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 319934 for detecting SNP TSC0029477.

XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO20017384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB00713.

XX 07-APR-2000; 2000DE-1019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A., Piepenbrock C., Berlin K;

XX WPI: 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status

PS Claim 1; SEQ ID 319934; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC AB100010-AB182073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcr_sequences.

XX Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;

AB119961 Length: 12 September 17, 2003 14:26 Type: N Check: 6133 ..

ab119961

Query Match 52.0%; Score 10.4; DB 1; Length 12;

Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATTAATTCCTT 2753

Db 12 AATTAATTCAT 1

RESULT 143
ab122242/c

TOIG of: ab122242 check: 6017 from: 1 to: 12

ID AB122242 standard; DNA; 12 BP.

XX AC AB122242;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 322215 for detecting SNP TSC0030738.

XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO20017384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB00713.

XX 07-APR-2000; 2000DE-1019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A., Piepenbrock C., Berlin K;

XX WPI: 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status

PS Claim 1; SEQ ID 322215; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

CC AB100010-AB182073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcr_sequences.

XX Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;

AB122242 Length: 12 September 17, 2003 14:26 Type: N Check: 6017 ..

ab122242

Query Match 52.0%; Score 10.4; DB 1; Length 12;

Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATTAATTCCTT 2753

Db 12 AATTAATTCAT 1

RESULT 144
ab123629

TOIG of: ab123629 check: 6286 from: 1 to: 12

ID AB123629 standard; DNA; 12 BP.

XX AC AB123629;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 323602 for detecting SNP TSC0031483.

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; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS Claim 1; SEQ ID 323602; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 0 G; 8 T; 0 other;
; AB123629 Length: 12 September 17, 2003 14:26 Type: N Check: 6286 ..
; ab123629
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
Db 1 TAAATTCCTTT 12
RESULT 145
ab127821/c
; TOIG Of: ab127821 check: 5978 from: 1 to: 12
; ID AB127821 standard; DNA: 12 BP.
; AC AB127821;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 327794 for detecting SNP TSC0033907.
; OS Homo sapiens.
; PN WO200177384-A2.
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.

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; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS Claim 1; SEQ ID 327794; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;
; AB127821 Length: 12 September 17, 2003 14:26 Type: N Check: 5978 ..
; ab127821
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2740 TCATTAATAATTC 2751
Db 12 TCATTAATAATTC 1
RESULT 146
ab130046/c
; TOIG Of: ab130046 check: 5955 from: 1 to: 12
; ID AB130046 standard; DNA: 12 BP.
; AC AB130046;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 330019 for detecting SNP TSC0035279.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.

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; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 330019; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 0 C; 1 G; 5 T; 0 other;
; AB130046 Length: 12 September 17, 2003 14:26 Type: N Check: 5955 ..
; ab130046

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATTCCTTT 2755
Db 12 TAAATTCCTTT 1

RESULT 147
ab131085
; TOIG of: ab131085 check: 5588 from: 1 to: 12
; ID AB131085 standard; DNA; 12 BP.
; AC AB131085;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; DE Oligonucleotide primer SEQ ID NO 331058 for detecting SNP TSC0035942.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS

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; PS Claim 1; SEQ ID 331058; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; AB131085 Length: 12 September 17, 2003 14:26 Type: N Check: 5588 ..
; ab131085

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2741 CAATTAATTCCT 2752
Db 1 CAATTAATTCCT 12

RESULT 148
ab131227/c
; TOIG of: ab131227 check: 5679 from: 1 to: 12
; ID AB131227 standard; DNA; 12 BP.
; AC AB131227;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; DE Oligonucleotide primer SEQ ID NO 331200 for detecting SNP TSC0036047.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 331200; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The

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```
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC SQ Sequence 12 BP: 7 A; 0 C; 2 G; 3 T; 0 other;
AB131227 Length: 12 September 17, 2003 14:26 Type: N Check: 5679 ..
ab131227

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      2744 TAAATTCCTTT 2735
Db      12 TCATAATCTTTT 1

RESULT 149
ab132513/c
TOIG of: ab132513 check: 6134 from: 1 to: 12
ID AB132513 standard; DNA; 12 BP.
AC AB132513;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 332486 for detecting SNP TSC0036944.
XX
XX DE SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX PS WPI; 2001-657177/75.
XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status.
XX
XX PS Claim 1; SEQ ID 332486; 29pp + Sequence listing; German.
XX
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 12 BP: 5 A; 0 C; 0 G; 7 T; 0 other;
```

```
AB132513 Length: 12 September 17, 2003 14:26 Type: N Check: 6134 ..
ab132513

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      2744 TAAATTCCTTT 2733
Db      12 AATTAATTTATT 1

RESULT 150
ab135898
TOIG of: ab135898 check: 5946 from: 1 to: 12
ID AB135898 standard; DNA; 12 BP.
AC AB135898;
XX
XX 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide primer SEQ ID NO 335871 for detecting SNP TSC0039085.
XX
XX KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX
XX PN WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-IB00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX PA (EPIG-) EPIGENOMICS AG.
XX
XX PI Olek A, Piepenbrock C, Berlin K;
XX
XX PS WPI; 2001-657177/75.
XX
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status.
XX
XX PS Claim 1; SEQ ID 335871; 29pp + Sequence listing; German.
XX
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 12 BP: 6 A; 1 C; 0 G; 5 T; 0 other;
AB135898 Length: 12 September 17, 2003 14:26 Type: N Check: 5946 ..
ab135898

Query Match          52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 2741 CAATTAATTCCT 2752
DB 1 CAATTAATTCCT 12

RESULT 151
abi36881/c
TOIG of: abi36881 check: 5816 from: 1 to: 12

ID ABI36881 standard; DNA; 12 BP.
AC ABI36881;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 336854 for detecting SNP TSC0007633.
XX
XX
XX
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO20017384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI: 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 336854; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX
XX ABC00010-ABC99989, ABF0010-ABF99989, ABH0010-ABH99989 and
XX CC ABI00010-ABI82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 12 BP; 7 A; 0 C; 1 G; 4 T; 0 other;
XX
XX ABI36881 Length: 12 September 17, 2003 14:26 Type: N Check: 5816 ..
abi36881

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

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OY 2743 ATAAATTCCTT 2754
DB 1 ATAAATTCCTT 12

RESULT 153
abi38239/c
TOIG of: abi38239 check: 5886 from: 1 to: 12

ID ABI38239 standard; DNA; 12 BP.
AC ABI38239;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 337470 for detecting SNP TSC0039886.
XX
XX
XX
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO20017384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI: 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 337470; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX
XX ABC00010-ABC99989, ABF0010-ABF99989, ABH0010-ABH99989 and
XX CC ABI00010-ABI82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 12 BP; 5 A; 0 C; 0 G; 7 T; 0 other;
XX
XX ABI37497 Length: 12 September 17, 2003 14:26 Type: N Check: 6191 ..
abi37497

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

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; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX WO200177384-A2.
; EN 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; XX (EPIC-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI: 2001-657177/75.
; DR WPI: 2001-657177/75.
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX Claim 1; SEQ ID 338212; 29pp + Sequence Listing; German.
; PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC SO Sequence 12 BP; 6 A; 0 C; 1 G; 5 T; 0 other;
; AB18239 Length: 12 September 17, 2003 14:26 Type: N Check: 5886 ..
; ab18239
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATAAATCTTCT 2753
DB 12 AATAAATCTTCT 1
RESULT 154
ab138657
TOIG of: ab138657 check: 6054 from: 1 to: 12
; ID ABI38657 standard; DNA; 12 BP.
; XX
; AC ABI38657;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 338630 for detecting SNP TSC0040589.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.

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; XX 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; XX (EPIC-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI: 2001-657177/75.
; DR WPI: 2001-657177/75.
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX Claim 1; SEQ ID 338630; 29pp + Sequence Listing; German.
; PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC SO Sequence 12 BP; 4 A; 2 C; 0 G; 6 T; 0 other;
; AB18657 Length: 12 September 17, 2003 14:26 Type: N Check: 6054 ..
; ab18657
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2746 AATCTTCTTCT 2757
DB 1 AATCTTCTTCT 12
RESULT 155
ab140571
TOIG of: ab140571 check: 5848 from: 1 to: 12
; ID ABI40571 standard; DNA; 12 BP.
; XX
; AC ABI40571;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 340544 for detecting SNP TSC0041592.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.

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; XX Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; CC
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status -
; CC
; PS Claim 1; SEQ ID 340544; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;
; SQ
; AB140571 Length: 12 September 17, 2003 14:26 Type: N Check: 5848 ..
; ab140571
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2743 ATTAATTCCTT 2754
; Db 1 ATTAATTCCTT 12
;
; RESULT 156
; ab142150
; TOIG of: ab142150 check: 6077 from: 1 to: 12
; ID AB142150 standard; DNA; 12 BP.
; AC AB142150;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 342123 for detecting SNP TSC0042394.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; XX OS
; XX WO200177384-A2.
; XX PN
; XX 18-OCT-2001.
; XX PD
; XX 06-APR-2001; 2001WO-IB00713.
; XX PF
; XX 07-APR-2000; 2000DE-1019173.
; XX PR
; XX (EPIC-) EPIGENOMICS AG.
; XX PA
; XX Olek A, Piepenbrock C, Berlin K;
; XX PI
; XX WPI; 2001-657177/75.
; XX DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status -
; CC

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; XX Claim 1; SEQ ID 342123; 29pp + Sequence Listing; German.
; PS
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC Sequence 12 BP; 6 A; 0 C; 0 G; 6 T; 0 other;
; SQ
; AB142150 Length: 12 September 17, 2003 14:26 Type: N Check: 6077 ..
; ab142150
;
; Query Match 52.0%; Score 10.4; DB 1; Length 12;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2742 ATTAATTCCTT 2753
; Db 1 ATTAATTCCTT 12
;
; RESULT 157
; ab142332
; TOIG of: ab142332 check: 5773 from: 1 to: 12
; ID AB142332 standard; DNA; 12 BP.
; AC AB142332;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 342305 for detecting SNP TSC0042487.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; XX OS
; XX WO200177384-A2.
; XX PN
; XX 18-OCT-2001.
; XX PD
; XX 06-APR-2001; 2001WO-IB00713.
; XX PF
; XX 07-APR-2000; 2000DE-1019173.
; XX PR
; XX (EPIC-) EPIGENOMICS AG.
; XX PA
; XX Olek A, Piepenbrock C, Berlin K;
; XX PI
; XX WPI; 2001-657177/75.
; XX DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status -
; CC
; CC Claim 1; SEQ ID 342305; 29pp + Sequence Listing; German.
; PS
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,

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CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 5 A; 3 C; 0 G; 4 T; 0 other;
AB142382 Length: 12 September 17, 2003 14:26 Type: N Check: 5773 ..
ab142332

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2741 CAATTAATCTT 2752
DB 1 CAATTAATCTT 12

RESULT 158
ab142883
TOIG of: ab142883 check: 6021 from: 1 to: 12
XX ID AB142883 standard; DNA: 12 BP.
XX AC AB142883;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide primer SEQ ID NO 342856 for detecting SNP TSC0042737.
XX SN SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX PS WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status
XX PS Claim 1; SEQ ID 342856; 29pp + Sequence listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
```

```
XX SQ Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
XX AB142883 Length: 12 September 17, 2003 14:26 Type: N Check: 6021 ..
ab142883

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATTAATCTT 2753
DB 1 AATTAATCTT 12

RESULT 159
ab144467/c
TOIG of: ab144467 check: 5701 from: 1 to: 12
XX ID AB144467 standard; DNA: 12 BP.
XX AC AB144467;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide primer SEQ ID NO 344440 for detecting SNP TSC0043543.
XX SN SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIC-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX PS WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status
XX PS Claim 1; SEQ ID 344440; 29pp + Sequence listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 7 A; 0 C; 2 G; 3 T; 0 other;
AB144467 Length: 12 September 17, 2003 14:26 Type: N Check: 5701 ..
ab144467

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

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OY      2745 AAAATCTCTTTC 2756
Db      12 AFAATCTCTTTC 1
RESULT 160
Abi45059
TOIG of: abi45059 check: 6016 from: 1 to: 12
; ID   ABI45059 standard; DNA; 12 BP.
; AC   ABI45059;
; XX   22-FEB-2002 (first entry)
; DN   Oligonucleotide primer SEQ ID NO 345032 for detecting SNP TSC0043833.
; PA   SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM   peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW   central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS   Homo sapiens.
; PN   WO00177384-A2.
; PD   18-OCT-2001.
; PE   06-APR-2001; 2001WO-1B00713.
; PR   07-APR-2000; 2000DE-1019173.
; PA   (EPIC-) EPICGENOMICS AG.
; PI   Olek A, Piepenbrock C, Berlin K;
; DR   WPI: 2001-657177/75.
; XX   Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT   designed to detect single nucleotide polymorphisms and cytosine
; PR   methylation status -
; XX   Claim 1: SEQ ID 345032; 29pp + Sequence Listing; German.
; PS   This invention describes novel oligonucleotide primers or peptide nucleic
; CC   acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC   and cytosine methylation status in chemically pretreated genomic DNA. The
; CC   oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC   range of diseases including immune system, gastrointestinal, respiratory,
; CC   central nervous system, cardiovascular and metabolic disorders. The
; CC   oligomers are also used for detecting cell type differentiation.
; CC   ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC   ABI00010-ABI82073 represent the oligomers described in the invention.
; CC   NOTE: The sequence data for this patent did not form part of the printed
; CC   specification, but was obtained in electronic format from WIPO at
; CC   ftp.wipo.int/pub/published_pcl_sequences.
; SQ   Sequence 12 BP; 4 A; 2 C; 0 G; 6 T; 0 other;
; AB145059 Length: 12 September 17, 2003 14:26 Type: N Check: 6016 ..
Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      2746 AAAATCTCTTTC 2757
Db      1 AAAATCTCTTTC 12
RESULT 161
Abi45936
TOIG of: abi45936 check: 6017 from: 1 to: 12
; ID   ABI45936 standard; DNA; 12 BP.
; AC   ABI45936;
; XX   22-FEB-2002 (first entry)
; DN   Oligonucleotide primer SEQ ID NO 345909 for detecting SNP TSC0007795.
; PA   SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM   peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW   central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS   Homo sapiens.
; PN   WO00177384-A2.
; PD   18-OCT-2001.
; PE   06-APR-2001; 2001WO-1B00713.
; PR   07-APR-2000; 2000DE-1019173.
; PA   (EPIC-) EPICGENOMICS AG.
; PI   Olek A, Piepenbrock C, Berlin K;
; DR   WPI: 2001-657177/75.
; XX   Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT   designed to detect single nucleotide polymorphisms and cytosine
; PR   methylation status -
; XX   Claim 1: SEQ ID 345909; 29pp + Sequence Listing; German.
; PS   This invention describes novel oligonucleotide primers or peptide nucleic
; CC   acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC   and cytosine methylation status in chemically pretreated genomic DNA. The
; CC   oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC   range of diseases including immune system, gastrointestinal, respiratory,
; CC   central nervous system, cardiovascular and metabolic disorders. The
; CC   oligomers are also used for detecting cell type differentiation.
; CC   ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC   ABI00010-ABI82073 represent the oligomers described in the invention.
; CC   NOTE: The sequence data for this patent did not form part of the printed
; CC   specification, but was obtained in electronic format from WIPO at
; CC   ftp.wipo.int/pub/published_pcl_sequences.
; SQ   Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
; AB145936 Length: 12 September 17, 2003 14:26 Type: N Check: 6017 ..
Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
DE Oligonucleotide primer SEQ ID NO 346031 for detecting SNP TSC0044334.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 346031; 29bp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC ABH00010-ABH82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcl_sequences.
XX
XX Sequence 12 BP; 5 A; 2 C; 0 G; 5 T; 0 other;
XX
XX ABI46058 Length: 12 September 17, 2003 14:26 Type: N Check: 5873 ..
XX abi46058
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2741 CAATTAATTC 2752
DB 1 CAATTAATTC 12
RESULT 163
abi46487
TOIG of: abi46487 check: 5424 from: 1 to: 12
ID ABI46487 standard; DNA; 12 BP.
XX
XX ABI46487;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 346460 for detecting SNP TSC0044589.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
```

```
PN WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 346460; 29bp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC ABH00010-ABH82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcl_sequences.
XX
XX Sequence 12 BP; 6 A; 8 C; 0 G; 3 T; 0 other;
XX
XX ABI46487 Length: 12 September 17, 2003 14:26 Type: N Check: 5424 ..
XX abi46487
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2740 TCAATTAATTC 2751
DB 1 TCAATTAATTC 12
RESULT 164
abi46936
TOIG of: abi46936 check: 5771 from: 1 to: 12
ID ABI46936 standard; DNA; 12 BP.
XX
XX AC ABI46936;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 346909 for detecting SNP TSC0044827.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
```


PA (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
PS Claim 1; SEQ ID 346909; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989 and
XX ABH00010-ABH99989 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcr_sequences.
XX
XX Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
XX
XX AB146936 Length: 12 September 17, 2003 14:26 Type: N Check: 5771 ..
XX ab146936
XX
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 AATAAATCTT 2753
DB 1 AATAAATCTT 12
RESULT 165
ab147607
TOIG of: ab147607 check: 6245 from: 1 to: 12
ID AB147607 standard; DNA; 12 BP.
XX
XX AB147607;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 347580 for detecting SNP TSC0006225.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine

PT methylation status -
XX
XX Claim 1; SEQ ID 347580; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989 and
XX ABH00010-ABH99989 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcr_sequences.
XX
XX Sequence 12 BP; 3 A; 1 C; 0 G; 8 T; 0 other;
XX
XX AB147607 Length: 12 September 17, 2003 14:26 Type: N Check: 6245 ..
XX ab147607
XX
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTT 2755
DB 1 TAAATTCCTT 12
RESULT 166
ab148760/c
TOIG of: ab148760 check: 5997 from: 1 to: 12
ID AB148760 standard; DNA; 12 BP.
XX
XX AB148760;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 348733 for detecting SNP TSC0001079.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 348733; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

```

; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;
; AB148760 Length: 12 September 17, 2003 14:26 Type: N Check: 5997 ..
; ab148760

Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 TCATATTAATTC 2750
Db 12 TCATATTAATTC 1

RESULT 167
ab149252/c
; TOIG of: ab149252 check: 5826 from: 1 to: 12
; ID AB149252 standard; DNA: 12 BP.
; AC AB149252;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 349225 for detecting SNP TSC0046004.
; XX
; SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-1B00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; Claim 1: SEQ ID 349225; 29pp + Sequence listing; German.
; XX
; This invention describes novel oligonucleotide primers of peptide nucleic
; acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.

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; XX
; SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
; AB149252 Length: 12 September 17, 2003 14:26 Type: N Check: 5826 ..
; ab149252

Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2740 TCATATTAATTC 2751
Db 12 TCATATTAATTC 1

RESULT 168
ab149725
; TOIG of: ab149725 check: 6077 from: 1 to: 12
; ID AB149725 standard; DNA: 12 BP.
; AC AB149725;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 349698 for detecting SNP TSC0046260.
; XX
; SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-1B00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; Claim 1: SEQ ID 349698; 29pp + Sequence listing; German.
; XX
; This invention describes novel oligonucleotide primers of peptide nucleic
; acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 3 A; 2 C; 0 G; 7 T; 0 other;
; AB149725 Length: 12 September 17, 2003 14:26 Type: N Check: 6077 ..
; ab149725

Query Match      52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;

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Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 2745 AAAATCTCTTTC 2756
 | | | | | | | | | |
 Db 1 AATAATCTCTTTC 12

RESULT 169
 ab154495/c
 : TOIG of: ab154495 check: 5864 from: 1 to: 12

: ID AB154495 standard; DNA; 12 BP.

: AC AB154495;

: XX 22-FEB-2002 (first entry)

: DE Oligonucleotide primer SEQ ID NO 354468 for detecting SNP TSC0049100.

: SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

: peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

: central nervous system; gastrointestinal; respiratory; immune; metabolic.

: OS Homo sapiens

: PN WO200177384-A2

: PD 18-OCT-2001.

: PE 06-APR-2001; 2001WO-IB00713.

: PR 07-APR-2000; 2000DE-1019173.

: PA (EPIC-) EPIDENOMICS AG.

: PI Olek A. Plepenbrock C. Berlin K;

: PS WPI; 2001-657177/75.

: PT Set of oligonucleotides, useful for diagnosis and cell typing, is

: PT designed to detect single nucleotide polymorphisms and cytosine

: PT methylation status -

: XX Claim 1; SEQ ID 354468; 29pp + Sequence Listing; German.

: CC This invention describes novel oligonucleotide primers or peptide nucleic

: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

: CC and cytosine methylation status in chemically pretreated genomic DNA. The

: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

: CC range of diseases including immune system, gastrointestinal, respiratory,

: CC central nervous system, cardiovascular and metabolic disorders. The

: CC oligomers are also used for detecting cell type differentiation.

: CC AB100010-AB182073 represent the oligomers described in the invention.

: CC NOTE: The sequence data for this patent did not form part of the printed

: CC specification, but was obtained in electronic format from WIPO at

: CC ftp.wipo.int/pub/published_pcr_sequences.

: SQ Sequence 12 BP; 6 A; 0 C; 2 G; 4 T; 0 other;

: AB154495 Length: 12 September 17, 2003 14:26 Type: N Check: 5864 ..

Query Match 52.0%; Score 10.4; DB 1; Length 12;

Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2744 TAAATCTCTT 2755

| | | | | | | | | |

Db 12 TAAACTCTT 1

RESULT 170

ab154808
 : TOIG of: ab154808 check: 5921 from: 1 to: 12

: ID AB154808 standard; DNA; 12 BP.

: AC AB154808;

: XX 22-FEB-2002 (first entry)

: DE Oligonucleotide primer SEQ ID NO 354781 for detecting SNP TSC0049294.

: SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

: peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

: central nervous system; gastrointestinal; respiratory; immune; metabolic.

: OS Homo sapiens.

: PN WO200177384-A2.

: PD 18-OCT-2001.

: PE 06-APR-2001; 2001WO-IB00713.

: PR 07-APR-2000; 2000DE-1019173.

: PA (EPIC-) EPIDENOMICS AG.

: PI Olek A. Plepenbrock C. Berlin K;

: PS WPI; 2001-657177/75.

: PT Set of oligonucleotides, useful for diagnosis and cell typing, is

: PT designed to detect single nucleotide polymorphisms and cytosine

: PT methylation status -

: XX Claim 1; SEQ ID 354781; 29pp + Sequence Listing; German.

: CC This invention describes novel oligonucleotide primers or peptide nucleic

: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

: CC and cytosine methylation status in chemically pretreated genomic DNA. The

: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

: CC range of diseases including immune system, gastrointestinal, respiratory,

: CC central nervous system, cardiovascular and metabolic disorders. The

: CC oligomers are also used for detecting cell type differentiation.

: CC AB100010-AB182073 represent the oligomers described in the invention.

: CC NOTE: The sequence data for this patent did not form part of the printed

: CC specification, but was obtained in electronic format from WIPO at

: CC ftp.wipo.int/pub/published_pcr_sequences.

: SQ Sequence 12 BP; 5 A; 2 C; 0 G; 5 T; 0 other;

: AB154808 Length: 12 September 17, 2003 14:26 Type: N Check: 5921 ..

Query Match 52.0%; Score 10.4; DB 1; Length 12;

Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2742 AATAATCTCT 2753

| | | | | | | | | |

Db 1 AATAACTCTT 12

RESULT 171

ab155283/c

: TOIG of: ab155283 check: 5874 from: 1 to: 12

: ID AB155283 standard; DNA; 12 BP.

: AC AB155283;

: XX 22-FEB-2002 (first entry)

: DT

```

; XX Oligonucleotide primer SEQ ID NO 355256 for detecting SNP TSC0049549.
; DE
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; PN
; XX
; PD 18-OCT-2001.
; DE
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; PR
; XX 07-APR-2000; 2000DE-1019173.
; PA
; XX (EPIC-) EPICENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI: 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; XX Claim 1; SEQ ID 355256; 29bp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABO00010-ABO99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 12 BP; 7 A; 0 C; 1 G; 4 T; 0 other;
; AB155283 Length: 12 September 17, 2003 14:26 Type: N Check: 5874 ..
; ab155283
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2745 AAAATTCCTTTC 2756
DB 12 AAAATTCCTTTC 1
RESULT 172
ab156662/c
TOIG of: ab156662 check: 5908 from: 1 to: 12
; ID AB156662 standard; DNA; 12 BP.
; XX
; AC AB156662;
; DE
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 356635 for detecting SNP TSC0050230.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.

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; XX WO200177384-A2.
; PN
; XX
; PD 18-OCT-2001.
; DE
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; PR
; XX 07-APR-2000; 2000DE-1019173.
; PA
; XX (EPIC-) EPICENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI: 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; XX Claim 1; SEQ ID 356635; 29bp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABO00010-ABO99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 12 BP; 3 A; 1 C; 1 G; 7 T; 0 other;
; AB156662 Length: 12 September 17, 2003 14:26 Type: N Check: 5908 ..
; ab156662
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2738 GCTCAATTAAT 2749
DB 12 GCTCAATTAAT 1
RESULT 173
ab157005
TOIG of: ab157005 check: 5850 from: 1 to: 12
; ID AB157005 standard; DNA; 12 BP.
; XX
; AC AB157005;
; DE
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 356978 for detecting SNP TSC0008145.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; DE
; PE 06-APR-2001; 2001WO-IB00713.
; PR
; XX 07-APR-2000; 2000DE-1019173.

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```
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC SQ Sequence 12 BP; 8 A; 0 C; 1 G; 3 T; 0 other;
; AB159571 Length: 12 September 17, 2003 14:26 Type: N Check: 5739 ..
; ab159571
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2746 AATTCCTTCT 2757
Db 12 AATTCCTTCTT 1
RESULT 176
ab160014 check: 5736 from: 1 to: 12
; TOIG of: ab160014 DNA: 12 BP.
; ID AB160014 standard;
; XX AB160014;
; AC AB160014;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; OS Homo sapiens.
; DE oligonucleotide primer SEQ ID NO 359987 for detecting SNP TSC0051878.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPICENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; Claim 1; SEQ ID 359987; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
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CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
; AB160014 Length: 12 September 17, 2003 14:26 Type: N Check: 5736 ..
; ab160014
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATTAATCTT 2753
Db 1 AATTAATCTT 12
RESULT 177
ab160603/C check: 5933 from: 1 to: 12
; TOIG of: ab160603 DNA: 12 BP.
; ID AB160603 standard;
; XX AB160603;
; AC AB160603;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE oligonucleotide primer SEQ ID NO 360576 for detecting SNP TSC0052141.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPICENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; Claim 1; SEQ ID 360576; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
; AB160603 Length: 12 September 17, 2003 14:26 Type: N Check: 5933 ..
; ab160603
Query Match 52.0%; Score 10.4; DB 1; Length 12;
```



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; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 364715 for detecting SNP TSC0054667.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; DE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIDEMIOLOGICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; designed to detect single nucleotide polymorphisms and cytosine
; methylation status.
; XX
; PS Claim 1; SEQ ID 364715; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; and cytosine methylation status in chemically pretreated genomic DNA. The
; oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; range of diseases including immune system, gastrointestinal, respiratory,
; central nervous system, cardiovascular and metabolic disorders. The
; oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ARI00010-ARI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; specification, but was obtained in electronic format from WIPO at
; ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 1 C; 0 G; 7 T; 0 other;
; AB164742 Length: 12 September 17, 2003 14:26 Type: N Check: 6114 ..
; ab164742
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2743 ATTAATTCCTT 2754
DB 1 ATTAATTCCTT 12
RESULT 181
ab165089
; TOIG of: ab165089 check: 5838 from: 1 to: 12
; ID AB165089 standard; DNA; 12 BP.
; AC AB165089;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 365062 for detecting SNP TSC0054896.
; PN
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX

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; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; DE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIDEMIOLOGICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; designed to detect single nucleotide polymorphisms and cytosine
; methylation status.
; XX
; PS Claim 1; SEQ ID 365062; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; and cytosine methylation status in chemically pretreated genomic DNA. The
; oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; range of diseases including immune system, gastrointestinal, respiratory,
; central nervous system, cardiovascular and metabolic disorders. The
; oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ARI00010-ARI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; specification, but was obtained in electronic format from WIPO at
; ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 2 C; 0 G; 5 T; 0 other;
; AB165089 Length: 12 September 17, 2003 14:26 Type: N Check: 5838 ..
; ab165089
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2739 CTCATTAATAT 2750
DB 1 CTCATTAATAT 12
RESULT 182
ab165849/c
; TOIG of: ab165849 check: 5842 from: 1 to: 12
; ID AB165849 standard; DNA; 12 BP.
; AC AB165849;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 365822 for detecting SNP TSC0055367.
; PN
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; DE 06-APR-2001; 2001WO-IB00713.
; XX

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PR 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 365822; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABI00010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 12 BP; 7 A; 0 C; 1 G; 4 T; 0 other;
XX
XX ABI65849 Length: 12 September 17, 2003 14:26 Type: N Check: 5842 ..
XX ABI65849
XX
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX 2746 AATCTCTTCT 2757
XX 12 AATATATTTCT 1
XX
RESULT 183
XX abi65887
XX TOIG of: abi65887 check: 6074 from: 1 to: 12
XX
XX ID ABI65887 standard; DNA; 18 BP.
XX
XX AC ABI65887;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide primer SEQ ID NO 365860 for detecting SNP TSC0055397.
XX
XX SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-1B00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX
```

```
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PT
PT Claim 1; SEQ ID 365860; 29pp + Sequence Listing; German.
PT
PT This invention describes novel oligonucleotide primers or peptide nucleic
PT acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
PT and cytosine methylation status in chemically pretreated genomic DNA. The
PT oligonucleotides are used for diagnosis and/or prognosis of cancer and a
PT range of diseases including immune system, gastrointestinal, respiratory,
PT central nervous system, cardiovascular and metabolic disorders. The
PT oligomers are also used for detecting cell type differentiation.
PT ABC00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
PT ABI00010-AB182073 represent the oligomers described in the invention.
PT NOTE: The sequence data for this patent did not form part of the printed
PT specification, but was obtained in electronic format from WIPO at
PT ftp.wipo.int/pub/published_pct_sequences.
PT
PT SQ Sequence 12 BP; 5 A; 0 C; 1 G; 6 T; 0 other;
PT
PT ABI65887 Length: 12 September 17, 2003 14:26 Type: N Check: 6074 ..
PT ABI65887
PT
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
XX 2743 AATAATCTCTT 2754
XX 1 AATAATCTCTT 12
XX
RESULT 184
XX abi67559
XX TOIG of: abi67559 check: 5919 from: 1 to: 12
XX
XX ID ABI67559 standard; DNA; 12 BP.
XX
XX AC ABI67559;
XX
XX DT 22-FEB-2002 (first entry)
XX
XX DE Oligonucleotide primer SEQ ID NO 367532 for detecting SNP TSC0056396.
XX
XX SN; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX PD 18-OCT-2001.
XX
XX PF 06-APR-2001; 2001WO-1B00713.
XX
XX PR 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 367532; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
```

```
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABT00010-ABT82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC SQ Sequence 12 BP; 5 A; 2 C; 0 G; 5 T; 0 other;
;
; AB157559 Length: 12 September 17, 2003 14:26 Type: N Check: 5919
; ab167559
;
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
QY 2743 AATTAATTCCTT 2754
; 1 AATTAATTCCTT 12
;
RESULT 185
ab168396
; TOIG of: ab168396 check: 5983 from: 1 to: 12
;
; ID AB168396 standard; DNA; 12 BP.
; AC AB168396;
; XX
; DT 22-FEB-2002 (first entry)
; OS Homo sapiens.
; PN WO200177384-A2.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1; SEQ ID 368369; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC
```

```
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC SQ Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
;
; AB168396 Length: 12 September 17, 2003 14:26 Type: N Check: 5983
; ab168396
;
Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
QY 2742 AATTAATTCCTT 2753
; 1 AATTAATTCCTT 12
;
RESULT 186
ab170387
; TOIG of: ab170387 check: 6063 from: 1 to: 12
;
; ID AB170387 standard; DNA; 12 BP.
; AC AB170387;
; XX
; DT 22-FEB-2002 (first entry)
; OS Homo sapiens.
; PN WO200177384-A2.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1; SEQ ID 370360; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC SQ Sequence 12 BP; 5 A; 0 C; 1 G; 6 T; 0 other;
;
; AB170387 Length: 12 September 17, 2003 14:26 Type: N Check: 6063
; ab170387
```

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2743 AATAAATCTT 2754
|||||
DB 12 AATAAATCTT 1

RESULT 187
ab172329
TOIG of: ab172329 check: 5755 from: 1 to: 12

ID AB172329 standard; DNA; 12 BP.
AC AB172329;
XX
XX 22-FEB-2002 (first entry)
DE Oligonucleotide primer SEQ ID NO 372302 for detecting SNP TSC0059303.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-1B00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI: 2001-657177/75.
XX
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX
XX Claim 1; SEQ ID 372302; 29pp + Sequence Listing; German.
XX
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcl_sequences.
XX
XX
XX Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
XX
XX
XX AB172329 Length: 12 September 17, 2003 14:26 Type: N Check: 5755 ..
XX ab172329

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATAAATCTT 2753
|||||
DB 1 AATAAATCTT 12

RESULT 188
ab172968/c
TOIG of: ab172968 check: 6125 from: 1 to: 12

ID AB172968 standard; DNA; 12 BP.
AC AB172968;
XX
XX 22-FEB-2002 (first entry)
DE Oligonucleotide primer SEQ ID NO 372941 for detecting SNP TSC0059741.
XX
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX
XX Homo sapiens.
XX
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-1B00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI: 2001-657177/75.
XX
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX
XX Claim 1; SEQ ID 372941; 29pp + Sequence Listing; German.
XX
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pcl_sequences.
XX
XX
XX Sequence 12 BP; 4 A; 0 C; 2 G; 6 T; 0 other;
XX
XX
XX AB172968 Length: 12 September 17, 2003 14:26 Type: N Check: 6125 ..
XX ab172968

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATAAATCTT 2753
|||||
DB 12 AATAAATCTT 1

RESULT 189
ab173977
TOIG of: ab173977 check: 5960 from: 1 to: 12

ID AB173977 standard; DNA; 12 BP.
AC AB173977;
XX
XX

```

; XX 22-FEB-2002 (first entry)
; DT
; OS Homo sapiens.
; DE Oligonucleotide primer SEQ ID NO 373950 for detecting SNP TSC0060413.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PR 06-APR-2001; 2001WO-IB00713.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 373950; 29bp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
; DT
; AB173977 Length: 12 September 17, 2003 14:26 Type: N Check: 5960 ..
; ab173977

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTT 2755
DB 1 TAAATTCCTT 12

RESULT 190
ab174328
; TOIG of: ab174328 check: 5887 from: 1 to: 12
; ID AB174328 standard; DNA; 12 BP.
; AC AB174328;
; DT
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 374301 for detecting SNP TSC0060629.
; OS
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

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; XX Homo sapiens.
; OS
; DE WO200177384-A2.
; PN
; PD 18-OCT-2001.
; PR 06-APR-2001; 2001WO-IB00713.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 374301; 29bp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 7 A; 0 C; 0 G; 5 T; 0 other;
; DT
; AB174328 Length: 12 September 17, 2003 14:26 Type: N Check: 5887 ..
; ab174328

Query Match 52.0%; Score 10.4; DB 1; Length 12;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATAAATTCCTT 2753
DB 1 AATAAATTCCTT 12

RESULT 191
ab174991
; TOIG of: ab174991 check: 6078 from: 1 to: 12
; ID AB174991 standard; DNA; 12 BP.
; AC AB174991;
; DT
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 374964 for detecting SNP TSC0007304.
; OS
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PR 06-APR-2001; 2001WO-IB00713.

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; XX 07-APR-2000; 2000DE-1019173.
; PR (EPiG-) EPiGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR
; PS Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 374964; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 12 BP; 4 A; 2 C; 0 G; 6 T; 0 other;
; SQ
; AB174991 Length: 12 September 17, 2003 14:26 Type: N Check: 6073 ..
; ab174991

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2746 AATTCCTTCTTCT 2757
Db 1 AATTCCTTCTTCT 12

RESULT 192
ab181190
; TOIG of: ab181190 check: 5629 from: 1 to: 12
; ID AB181190 standard; DNA; 12 BP.
; XX
; AC AB181190;
; XX
; DT 22-FEB-2002 (first entry)
; DE
; DE Oligonucleotide primer SEQ ID NO 381163 for detecting SNP TSC0008272.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD
; PD 18-OCT-2001.
; PD
; PE 06-APR-2001; 2001WO-IB00713.
; PE
; PR 07-APR-2000; 2000DE-1019173.
; PR
; PA (EPiG-) EPiGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI
; PI WPI; 2001-657177/75.
; DR

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; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 381163; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; SQ
; AB181190 Length: 12 September 17, 2003 14:26 Type: N Check: 5629 ..
; ab181190

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 12;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAATAATT 2750
Db 1 CTCATTAATAATT 12

RESULT 193
aas43211/c
; TOIG of: aas43211 check: 6827 from: 1 to: 13
; ID AAS43211 standard; DNA; 13 BP.
; XX
; AC AAS43211;
; XX
; DT 18-DEC-2001 (first entry)
; DE
; DE Human Oestrogen receptor beta gene SNP from exon 9 #2.
; KW Human; Oestrogen receptor beta; ERbeta; ds; SNP; chromosome 6q.25.1;
; KW single nucleotide polymorphism; cardiovascular disease;
; KW autoimmune disease; systemic lupus erythematosus; arthritis; rheumatism;
; KW osteoarthritis; osteoporosis; breast cancer; endometrial cancer.
; XX
; OS Homo sapiens.
; XX
; PN WO200162793-A2.
; PD
; PD 30-AUG-2001.
; PD
; PE 20-FEB-2001; 2001WO-US05860.
; PE
; PR 22-FEB-2000; 2000US-0183756.
; PR
; PR 24-JAN-2001; 2001US-0768183.
; PR
; PA (PEKE ) PE CORP NY.
; PA Kalush F, Cassel MJ, Hwang SS, Winn-Deen ES;
; PI
; PI WPI; 2001-582041/65.
; PI
; PT Oestrogen receptor gene and protein polymorphisms useful for diagnosis
; PT of individuals at risk of developing bone disorders -
; PS Example 1; Figure 2a; 245pp; English.
; XX

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The invention relates to a novel isolated peptide comprising or consisting of an amino acid sequence selected from an amino acid sequence of a variant oestrogen receptor protein (e.g. ERbeta), or a fragment of 10 amino acids), antibodies against them, nucleic acids encoding them (including vectors for transforming cells). The gene for human ERbeta is located on chromosome 6q.25.1. The variants are encoded by single nucleotide polymorphisms (SNP). The variant peptides and proteins can be used in assays to determine the biological activity of the protein, to raise antibodies, as a reagent in assays designed to quantitatively determine levels of the protein in biological fluids, to identify compounds that modulate receptor activity and to screen compounds for the ability to stimulate or inhibit interaction between the receptor protein and a target molecule that normally interacts with the receptor protein e.g. oestrogen. The antibody can be used to isolate the protein, to assess expression in disease states e.g. cardiovascular disease and autoimmune disease (e.g. systemic lupus erythematosus, arthritis, rheumatism and osteoarthritis), osteoporosis, breast cancer and endometrial cancer. In addition the antibodies can be used in pharmacogenomic analysis and inhibiting protein function, e.g. blocking the binding of the oestrogen receptor protein to a binding partner such as a ligand. The nucleic acids encoding the proteins can be used as probes, primers, chemical intermediates and in biological assays. The present sequence represents an SNP from the human ERbeta gene taken from the Liverpool clinical samples.

Sequence 13 BP; 8 A; 0 C; 0 G; 5 T; 0 other;
 AAS43211 Length: 13 September 17, 2003 14:26 Type: N Check: 6827 ..
 aas43211

Query Match 52.0%; Score 10.4; DB 1; Length 13;
 Best Local Similarity 91.7%; Pred. No. 1.2e+02;
 Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2744 TAAATTCCTTT 2755
 |||||
 13 TAAATTCCTTT 2

RESULT 194
 abc00024/c
 TOIG of: abc00024 check: 6637 from: 1 to: 13

ID ABC00024 standard; DNA; 13 BP.
 AC ABC00024;
 XX
 DT 20-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 15 for detecting SNP TSC0000004.
 XX
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 PD 18-OCT-2001.
 PF 06-APR-2001; 2001MO-IB00713.
 PR 07-APR-2000; 2000DE-1019173.
 PA (EPIC-) EPIGENOMICS AG.
 PI Olek A, Piepenbrock C, Berlin K;
 PS
 DR WPI: 2001-657177/75.
 XX
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is

designed to detect single nucleotide polymorphisms and cytosine methylation status -
 Claim 1; SEQ ID 15; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.
 CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
 CC AB100010-AB182073 represent the oligomers described in the invention.
 CC NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at
 CC ftp://wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 9 A; 0 C; 0 G; 4 T; 0 other;
 ABC00024 Length: 13 September 17, 2003 14:26 Type: N Check: 6637 ..
 abc00024

Query Match 52.0%; Score 10.4; DB 1; Length 13;
 Best Local Similarity 91.7%; Pred. No. 1.2e+02;
 Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2744 TAAATTCCTTT 2755
 |||||
 12 TAAATTCCTTT 1

RESULT 195
 abc00025
 TOIG of: abc00025 check: 7302 from: 1 to: 13

ID ABC00025 standard; DNA; 13 BP.
 AC ABC00025;
 XX
 DT 20-FEB-2002 (first entry)
 XX
 DE Oligonucleotide SEQ ID NO 16 for detecting SNP TSC0000004.
 XX
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss; central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 PD 18-OCT-2001.
 PF 06-APR-2001; 2001MO-IB00713.
 PR 07-APR-2000; 2000DE-1019173.
 PA (EPIC-) EPIGENOMICS AG.
 PI Olek A, Piepenbrock C, Berlin K;
 PS
 DR WPI: 2001-657177/75.
 XX
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single nucleotide polymorphisms and cytosine
 PT methylation status -
 PS
 PS Claim 1; SEQ ID 16; 29pp + Sequence Listing; German.
 CC
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC and cytosine methylation status in chemically pretreated genomic DNA. The

```

; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; range of diseases including immune system, gastrointestinal, respiratory,
; central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; SQ Sequence 13 BP; 4 A; 0 C; 0 G; 9 T; 0 other;
; ABC00025 Length: 13 September 17, 2003 14:26 Type: N Check: 7302
; abc00025

Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATTCCTTT 2755
Db 2 TAAATTCCTTT 13

RESULT 196
abc01900/c
; TOIG of: abc01900 check: 6899 from: 1 to: 13
; ID ABC01900 standard; DNA; 13 BP.
; XX ABC01900;
; AC ABC01900;
; XX 20-FEB-2002 (first entry)
; DT
; DE Oligonucleotide SEQ ID NO 1891 for detecting SNP TSC0000732.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PM WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001MO-1B00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 1891; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.

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; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 0 C; 1 G; 7 T; 0 other;
; ABC01900 Length: 13 September 17, 2003 14:26 Type: N Check: 6899
; abc01900

Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2739 CTCATTAATTT 2750
Db 12 CTCATTAATTT 1

RESULT 197
abc01900/c
; TOIG of: abc01901 check: 6660 from: 1 to: 13
; ID ABC01901 standard; DNA; 13 BP.
; XX ABC01901;
; AC ABC01901;
; XX 20-FEB-2002 (first entry)
; DT
; DE Oligonucleotide SEQ ID NO 1892 for detecting SNP TSC0000732.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PM WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001MO-1B00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 1892; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; SQ Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 other;
; ABC01901 Length: 13 September 17, 2003 14:26 Type: N Check: 6660
; abc01901

Query Match          52.0%; Score 10.4; DB 1; Length 13;

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; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 4477 for detecting SNP TSC0001639.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR (EPIC-) EPIDENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1; SEQ ID 4477; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABG9989, ABF0010-ABF9989, ABH0010-ABH9989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 0 C; 1 G; 7 T; 0 other;
; ABC04486 Length: 13 September 17, 2003 14:26 Type: N Check: 7161 ..
; abc04486
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2743 ATAAATCTTT 2754
Db 13 AAAAAATCTTT 2
RESULT 201
abc04487
; TOIG of: abc04487 check: 6845 from: 1 to: 13
; ID ABC04487 standard; DNA; 13 BP.
; XX
; AC ABC04487;
; XX
; DT 20-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 4478 for detecting SNP TSC0001639.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX

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; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR (EPIC-) EPIDENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1; SEQ ID 4478; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABG9989, ABF0010-ABF9989, ABH0010-ABH9989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 7 A; 1 C; 0 G; 5 T; 0 other;
; ABC04487 Length: 13 September 17, 2003 14:26 Type: N Check: 6845 ..
; abc04487
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2743 ATAAATCTTT 2754
Db 1 AAAAAATCTTT 12
RESULT 202
abc09642/c
; TOIG of: abc09642 check: 6576 from: 1 to: 13
; ID ABC09642 standard; DNA; 13 BP.
; XX
; AC ABC09642;
; XX
; DT 20-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 9633 for detecting SNP TSC0002516.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PF
; XX

```

```

: PR 07-APR-2000; 2000DE-1019173.
: XX
: PA (EPiG-) EPIGENOMICS AG.
: XX
: PI Olek A, Piepenbrock C, Berlin K;
: XX
: DR WPI; 2001-657177/75.
: XX
: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PR designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status -
: XX
: PS Claim 1; SEQ ID 9633; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC ABI00010-ABI82073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 other;
: ABC09642 Length: 13 September 17, 2003 14:26 Type: N Check: 6576 ..
: abc09642
:
: Query Match 52.0%; Score 10.4; DB 1; Length 13;
: Best Local Similarity 91.7%; Pred. No. 1.2e+02;
: Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
:
: OY 2740 TCATATAAATTC 2751
: Db 12 TCTATAAATTC 1
:
: RESULT 203
: abc09643
: TOIG of: abc09643 check: 6631 from: 1 to: 13
:
: ID ABC09643 standard; DNA; 13 BP.
: XX
: AC ABC09643;
: XX
: DT 20-FEB-2002 (first entry)
: XX
: DE Oligonucleotide SEQ ID NO 9634 for detecting SNP TSC0002516.
: XX
: SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
: XX
: OS Homo sapiens.
: XX
: PN WO200177384-A2.
: XX
: PD 18-OCT-2001.
: XX
: PF 06-APR-2001; 2001WO-1B00713.
: XX
: PR 07-APR-2000; 2000DE-1019173.
: XX
: PA (EPiG-) EPIGENOMICS AG.
: XX
: PI Olek A, Piepenbrock C, Berlin K;
: XX
: DR WPI; 2001-657177/75.
: XX

```

```

: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PR designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status -
: XX
: PS Claim 1; SEQ ID 9634; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC ABI00010-ABI82073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 13 BP; 5 A; 2 C; 0 G; 6 T; 0 other;
: ABC09643 Length: 13 September 17, 2003 14:26 Type: N Check: 6631 ..
: abc09643
:
: Query Match 52.0%; Score 10.4; DB 1; Length 13;
: Best Local Similarity 91.7%; Pred. No. 1.2e+02;
: Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
:
: OY 2740 TCATATAAATTC 2751
: Db 2 TCTATAAATTC 13
:
: RESULT 204
: abc15518/c
: TOIG of: abc15518 check: 6920 from: 1 to: 13
:
: ID ABC15518 standard; DNA; 13 BP.
: XX
: AC ABC15518;
: XX
: DT 20-FEB-2002 (first entry)
: XX
: DE Oligonucleotide SEQ ID NO 15525 for detecting SNP TSC0003439.
: XX
: SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
: XX
: OS Homo sapiens.
: XX
: PN WO200177384-A2.
: XX
: PD 18-OCT-2001.
: XX
: PF 06-APR-2001; 2001WO-1B00713.
: XX
: PR 07-APR-2000; 2000DE-1019173.
: XX
: PA (EPiG-) EPIGENOMICS AG.
: XX
: PI Olek A, Piepenbrock C, Berlin K;
: XX
: DR WPI; 2001-657177/75.
: XX
: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PR designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status -
: XX
: PS Claim 1; SEQ ID 15525; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

```

CC and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

ABCO0010-ABC99989, ABFO0010-ABF99989, ABH00010-ABH99989 and ABIO0010-ABI82073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at [ftp://wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).

SQ Sequence 13 BP; 6 A; 0 C; 1 G; 6 T; 0 other;

ABCI5518 Length: 13 September 17, 2003 14:26 Type: N Check: 6920 ..
abc15518

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATTCCTTT 2755
||||| |||||
Dn 13 TAAAAATCCTTT 2

RESULT 205
abc15519 check: 6881 from: 1 to: 13
TOIG of: abc15519

ID ABC15519 standard; DNA; 13 BP.
XX
AC ABC15519;
XX
DT 20-FEB-2002 (first entry)
XX
DE Oligonucleotide SNO ID NO 15526 for detecting SNP TSC0003439.
XX
KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX WPL; 2001-657177/75.
DR
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
PS Claim 1; SEQ ID 15526; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABCO0010-ABC99989, ABFO0010-ABF99989, ABH00010-ABH99989 and
XX ABIO0010-ABI82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX [ftp://wipo.int/pub/published_pct_sequences](http://wipo.int/pub/published_pct_sequences).
XX
XX SQ Sequence 13 BP; 6 A; 0 C; 1 G; 6 T; 0 other;
XX
XX ABCI5518 Length: 13 September 17, 2003 14:26 Type: N Check: 6920 ..
XX abc15518
XX Query Match 52.0%; Score 10.4; DB 1; Length 13;
XX Best Local Similarity 91.7%; Pred. No. 1.2e+02;
XX Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
xx
xx SQ Sequence 13 BP; 6 A; 1 C; 0 G; 6 T; 0 other;
ABCI5519 Length: 13 September 17, 2003 14:26 Type: N Check: 6881
ABCI5519
OY 2744 TAAATTCCTTT 2755
DB 1 TAAATATCTTT 12
RESULT 206
abc19524/c
TOIG of: abc19524 check: 6701 from: 1 to: 13
ID ABC19524 standard; DNA: 13 BP.
AC ABC19524;
XX
XX 20-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 19541 for detecting SNP TSC0004059.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
PN WO200177384-A1.
PD 18-OCT-2001.
PF 06-APR-2001; 2001NO-1B00713.
PR 07-APR-2000; 2000DEX1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
PA
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
DR
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status
PT
XX
XX Claim 1; SEQ ID 19541; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABFG99989, ABF00010-ABFG99989, ABH00010-ABH99989 and
XX ABC00010-ABH82073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 7 A; 0 C; 2 G; 4 T; 0 other;
SQ
ABCI9524 Length: 13 September 17, 2003 14:26 Type: N Check: 6701
abc19524

```

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATTCCTT 2754
|||
Db 12 ATAAATTCCTT 1

RESULT 207
abc19525

TOIG of: abc19525 check: 7077 from: 1 to: 13

ID ABC19525 standard; DNA; 13 BP.

AC ABC19525

DT 20-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 19542 for detecting SNP TSC0004059.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

DR WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status.

PS Claim 1; SEQ ID 19542; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The

CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

CC range of diseases including immune system, gastrointestinal, respiratory,

CC central nervous system, cardiovascular and metabolic disorders. The

CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and

CC AB100010-AB182073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pcl_sequences.

XX SQ Sequence 13 BP; 4 A; 2 C; 0 G; 7 T; 0 other;

AB19525 Length: 13 September 17, 2003 14:26 Type: N Check: 7077 ..

abc19525

Query Match 52.0%; Score 10.4; DB 1; Length 13;

Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATTCCTT 2754

|||
Db 2 ATAAATTCCTT 13

RESULT 208
abc27826/c

TOIG of: abc27826 check: 7263 from: 1 to: 13

ID ABC27826 standard; DNA; 13 BP.

AC ABC27826;

DT 20-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 27843 for detecting SNP TSC0007838.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

DR WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status.

PS Claim 1; SEQ ID 27843; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The

CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a

CC range of diseases including immune system, gastrointestinal, respiratory,

CC central nervous system, cardiovascular and metabolic disorders. The

CC oligomers are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and

CC AB100010-AB182073 represent the oligomers described in the invention.

CC NOTE: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format from WIPO at

CC ftp.wipo.int/pub/published_pcl_sequences.

XX SQ Sequence 13 BP; 4 A; 0 C; 1 G; 8 T; 0 other;

ABC27826 Length: 13 September 17, 2003 14:26 Type: N Check: 7263 ..

abc27826

Query Match 52.0%; Score 10.4; DB 1; Length 13;

Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATAAATTCCTT 2753

|||
Db 12 AATAAATTCCTT 1

RESULT 209

abc27827

TOIG of: abc27827 check: 6659 from: 1 to: 13

ID ABC27827 standard; DNA; 13 BP.

AC ABC27827;

```

: XX 20-FEB-2002 (first entry)
: DT
: XX
: DE Oligonucleotide SEQ ID NO 27844 for detecting SNP TSC0007838.
: XX
: XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
: XX
: OS Homo sapiens.
: XX
: WO200177384-A2.
: XX
: PD 18-OCT-2001.
: XX
: PF 06-APR-2001; 2001WO-IB00713.
: XX
: PR 07-APR-2000; 2000DE-1019173.
: XX
: PA (EPIC-) EPIGENOMICS AG.
: XX
: PI Olek A, Piepenbrock C, Berlin K;
: XX
: DR WPI; 2001-657177/5.
: XX
: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status -
: XX
: PS Claim 1; SEQ ID 27844; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC ABI00010-ABI2073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pcr_sequences.
: CC
: SQ Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 other;
:
: ABC27827 Length: 13 September 17, 2003 14:26 Type: N Check: 6659 ..
: abc27827
:
: Query Match 52.0%; Score 10.4; DB 1; Length 13;
: Best Local Similarity 91.7%; Pred. No. 1.2e+02;
: Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
:
: QY 2742 AATTAATTTCT 2753
: DB 2 AATTAATTTCT 13
:
: RESULT 210
: abc28868/c
: TOIG of: abc28868 check: 6923 from: 1 to: 13
:
: ID ABC28868 standard; DNA; 13 BP.
: AC ABC28868;
: XX
: DT 20-FEB-2002 (first entry)
: XX
: DE Oligonucleotide SEQ ID NO 28885 for detecting SNP TSC0008433.
: XX
: KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

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: XX Homo sapiens.
: OS
: XX
: WO200177384-A2.
: XX
: PD 18-OCT-2001.
: XX
: PF 06-APR-2001; 2001WO-IB00713.
: XX
: PR 07-APR-2000; 2000DE-1019173.
: XX
: PA (EPIC-) EPIGENOMICS AG.
: XX
: PI Olek A, Piepenbrock C, Berlin K;
: XX
: DR WPI; 2001-657177/5.
: XX
: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status -
: XX
: PS Claim 1; SEQ ID 28885; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC ABI00010-ABI2073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pcr_sequences.
: CC
: SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
:
: ABC28868 Length: 13 September 17, 2003 14:26 Type: N Check: 6923 ..
: abc28868
:
: Query Match 52.0%; Score 10.4; DB 1; Length 13;
: Best Local Similarity 91.7%; Pred. No. 1.2e+02;
: Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
:
: QY 2741 CAATTAATTTCT 2752
: DB 13 CAATTAATTTCT 2
:
: RESULT 211
: abc28869
: TOIG of: abc28869 check: 6756 from: 1 to: 13
:
: ID ABC28869 standard; DNA; 13 BP.
: AC ABC28869;
: XX
: DT 20-FEB-2002 (first entry)
: XX
: DE Oligonucleotide SEQ ID NO 28886 for detecting SNP TSC0008433.
: XX
: KW SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
: XX
: OS Homo sapiens.
: XX
: WO200177384-A2.
: XX
: PD 18-OCT-2001.
: XX
: PF 06-APR-2001; 2001WO-IB00713.

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; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPiG-) EPiGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1; SEQ ID 28886; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 6 A; 4 C; 0 G; 5 T; 0 other;
; SQ
; XX ABC28869 Length: 13 September 17, 2003 14:26 Type: N Check: 6756 ..
; abc28869
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2741 CATAAATCTT 2752
; Db 1 CATAAATCTT 12
;
; RESULT 212
; abc34124
; TOIG of: abc34124 check: 6979 from: 1 to: 13
;
; ID ABC34124 standard; DNA; 13 BP.
; XX
; AC ABC34124;
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 34141 for detecting SNP TSC0010917.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPiG-) EPiGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; CC
```

```

; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1; SEQ ID 34141; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 6 A; 0 C; 0 G; 7 T; 0 other;
; SQ
; XX ABC34124 Length: 13 September 17, 2003 14:26 Type: N Check: 6979 ..
; abc34124
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2744 TAAATCTT 2755
; Db 1 TAAATCTT 12
;
; RESULT 213
; abc34125/c
; TOIG of: abc34125 check: 6846 from: 1 to: 13
;
; ID ABC34125 standard; DNA; 13 BP.
; XX
; AC ABC34125;
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 34142 for detecting SNP TSC0010917.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPiG-) EPiGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms and cytosine
; CC methylation status
; CC Claim 1; SEQ ID 34142; 29pp + Sequence Listing; German.
; CC
```

```
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABG9989, ABH0010-ABH9989 and
CC ABH0010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
XX Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other;
SQ
ABC34125 Length: 13 September 17, 2003 14:26 Type: N Check: 6846 ..
abc34125

Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      2744 TAAATTCCTT 2755
Db      13 TAAATTAATTT 2

RESULT 214
abc36382
TOIG of: abc36382 check: 7055 from: 1 to: 13

ID ABC36382 standard; DNA; 13 BP.
XX
XX ABC36382;
AC
XX 20-FEB-2002 (first entry)
DT
XX Oligonucleotide SEQ ID NO 36389 for detecting SNP TSC0011431.
DE
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS
XX Homo sapiens.
PN
XX WO20017384-A2.
PR
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB00713.
PE
XX
XX 07-APR-2000; 2000DE-1019173.
PR
XX
XX (EPIG-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI: 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
PT
XX
XX Claim 1; SEQ ID 36399; 29pp + Sequence Listing; German.
PS
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABG9989, ABH0010-ABH9989 and
XX CC ABH0010-ABH82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other;
ABC36383 Length: 13 September 17, 2003 14:26 Type: N Check: 6846 ..
abc36383
```

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CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
XX Sequence 13 BP; 6 A; 0 C; 0 G; 7 T; 0 other;
SQ
ABC36382 Length: 13 September 17, 2003 14:26 Type: N Check: 7055 ..
abc36382

Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      2742 AATTAATTCCTT 2753
Db      2 AATTAATTCCTT 13

RESULT 215
abc36383/c
TOIG of: abc36383 check: 6922 from: 1 to: 13

ID ABC36383 standard; DNA; 13 BP.
XX
XX ABC36383;
AC
XX 20-FEB-2002 (first entry)
DT
XX Oligonucleotide SEQ ID NO 36400 for detecting SNP TSC0011431.
DE
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS
XX Homo sapiens.
PN
XX WO20017384-A2.
PR
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB00713.
PE
XX
XX 07-APR-2000; 2000DE-1019173.
PR
XX
XX (EPIG-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI: 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
PT
XX
XX Claim 1; SEQ ID 36400; 29pp + Sequence Listing; German.
PS
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABG9989, ABH0010-ABH9989 and
XX CC ABH0010-ABH82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other;
ABC36383 Length: 13 September 17, 2003 14:26 Type: N Check: 6922 ..
abc36383
```

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2742 AATTAATTTCTT 2753
DB 12 AATTAATTTCTT 1

RESULT 218
abc37578/c
TOIG of: abc37578 check: 6636 from: 1 to: 13

ID ABC37578 standard; DNA: 13 BP.
AC ABC37578;
XX
DT 20-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 37595 for detecting SNP TSC0011699.
XX
KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX
PN WO200177384-A2.
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-IB00713.
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
PS Claim 1: SEQ ID 37595; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp://ipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP: 8 A; 0 C; 1 G; 4 T; 0 other;
XX
ABC37578 Length: 13 September 17, 2003 14:26 Type: N Check: 6636 ..
abc37578

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2746 AATTTCTTTCT 2757
DB 13 AATTTCTTTCT 2

RESULT 217
abc37579
TOIG of: abc37579 check: 7096 from: 1 to: 13

ID ABC37579 standard; DNA: 13 BP.
XX
AC ABC37579;
XX
DT 20-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 37596 for detecting SNP TSC0011699.
XX
KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX
PN WO200177384-A2.
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-IB00713.
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
PS Claim 1: SEQ ID 37596; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp://ipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP: 4 A; 1 C; 0 G; 8 T; 0 other;
XX
ABC37579 Length: 13 September 17, 2003 14:26 Type: N Check: 7096 ..
abc37579

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2746 AATTTCTTTCT 2757
DB 1 AATTTCTTTCT 12

RESULT 218
abc39522
TOIG of: abc39522 check: 7172 from: 1 to: 13

ID ABC39522 standard; DNA: 13 BP.


```

; AC ABC39522;
; DT 20-FEB-2002 (first entry)
; XX
; XX
; DE Oligonucleotide SEQ ID NO 39539 for detecting SNP TSC0012088.
; XX
; XX SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 39539; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 2 G; 7 T; 0 other;
;
; ABC39522 Length: 13 September 17, 2003 14:16 Type: N Check: 7172 ..
; abc39522
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2744 TAAATTCCTTT 2755
Dn 2 TAAATTCCTTT 13
RESULT 219
abc39523/c
; TOIG of: abc39523 check: 6673 from: 1 to: 13
; ID ABC39523 standard; DNA; 13 BP.
; XX
; AC ABC39523;
; XX
; DT 20-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 39540 for detecting SNP TSC0012088.
; XX
; KW SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

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```

; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIDENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status
; XX
; PS Claim 1; SEQ ID 39540; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 13 BP; 7 A; 2 C; 0 G; 4 T; 0 other;
;
; ABC39523 Length: 13 September 17, 2003 14:26 Type: N Check: 6673 ..
; abc39523
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2744 TAAATTCCTTT 2755
Dn 12 TAAATTCCTTT 1
RESULT 220
abc48100/c
; TOIG of: abc48100 check: 6789 from: 1 to: 13
; ID ABC48100 standard; DNA; 13 BP.
; XX
; AC ABC48100;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 48117 for detecting SNP TSC0013754.
; XX
; KW SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX

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PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPiG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status
XX
PS Claim 1; SEQ ID 48117; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcl_sequences.
XX
SQ Sequence 13 BP; 8 A; 0 C; 0 G; 5 T; 0 other;
XX
ABC48100 Length: 13 September 17, 2003 14:26 Type: N Check: 6789 ..
abc48100

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATCTTT 2754
DB 12 ATAAATCTTTT 1

RESULT 221
abc48101
TOIG of: abc48101 check: 7188 from: 1 to: 13
ID ABC48101 standard; DNA; 13 BP.
XX
AC ABC48101;
XX
DE 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 48118 for detecting SNP TSC0013754.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
```

```
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status
XX
PS Claim 1; SEQ ID 48118; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcl_sequences.
XX
SQ Sequence 13 BP; 5 A; 0 C; 0 G; 8 T; 0 other;
XX
ABC48101 Length: 13 September 17, 2003 14:26 Type: N Check: 7188 ..
abc48101

Query Match 51.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATCTTT 2754
DB 2 ATAAATCTTTT 13

RESULT 222
abc49386
TOIG of: abc49386 check: 7036 from: 1 to: 13
ID ABC49386 standard; DNA; 13 BP.
XX
AC ABC49386;
XX
DE 21-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 49403 for detecting SNP TSC0013976.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
XX Claim 1; SEQ ID 49403; 29pp + Sequence Listing; German.
XX
```

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation.

NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pcr_sequences.

Sequence 13 BP; 6 A; 0 C; 0 G; 7 T; 0 other;

ABC49386 Length: 13 September 17, 2003 14:26 Type: N Check: 7036 ..

abc49386

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATCTTT 2754
1 ATAAATTTT 12

Db 1 ATAAATTTT 12

RESULT 223
abc49387/c
TOLG of: abc49387 check: 6903 from: 1 to: 13

ID ABC49387 standard; DNA; 13 BP.
AC ABC49387;
XX 21-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 49404 for detecting SNP TSC0013976.
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB00713.
XX 07-APR-2000; 2000DE-1019173.
XX (EPIC-) EPIGENOMICS AG.
PA Olek A, Piepenbrock C, Berlin K;
PI WPI; 2001-657177/75.
XX WPI; 2001-657177/75.
DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 49404; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX
XX Oligomers are also used for detecting cell type differentiation.
XX
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

AB100010-AB182073 represent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pcr_sequences.

Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other;

ABC49387 Length: 13 September 17, 2003 14:26 Type: N Check: 6903 ..

abc49387

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2743 ATAAATCTTT 2754
13 ATAAATTTT 2

Db 13 ATAAATTTT 2

RESULT 224
abc68970/c
TOLG of: abc68970 check: 6732 from: 1 to: 13

ID ABC68970 standard; DNA; 13 BP.
AC ABC68970;
XX 21-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 68987 for detecting SNP TSC0017964.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB00713.
XX 07-APR-2000; 2000DE-1019173.
XX (EPIC-) EPIGENOMICS AG.
PA Olek A, Piepenbrock C, Berlin K;
PI WPI; 2001-657177/75.
XX WPI; 2001-657177/75.
XX
XX Claim 1; SEQ ID 68987; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX
XX Oligomers are also used for detecting cell type differentiation.
XX
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and


```

; XX ABC77383;
; AC 21-FEB-2002 (first entry)
; XX
; XX DE Oligonucleotide SEQ ID NO 77400 for detecting SNP TSC0019720.
; XX
; XX SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX WO200177384-A2.
; XX 18-OCT-2001.
; XX PD
; XX 06-APR-2001; 2001WO-IB00713.
; XX PR
; XX 07-APR-2000; 2000DE-1019173.
; XX PA (EPIG-) EPIGENOMICS AG.
; XX PI Olek A, Piepenbrock C, Berlin K;
; XX DR WPI; 2001-657177/75.
; XX PR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX PT designed to detect single nucleotide polymorphisms and cytosine
; XX PT methylation status -
; PS Claim 1; SEQ ID 77400; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; CC Sequence 13 BP; 6 A; 3 C; 0 G; 4 T; 0 other;
; SQ
; ABC77383 Length: 13 September 17, 2003 14:26 Type: N Check: 6522 ..
; abc77383

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAATAATT 2750
Db 1 CTCACCTAATAATT 12

RESULT 228
abc82686/c
TOIG of: abc82686 check: 6685 from: 1 to: 13
; ID ABC82686 standard; DNA; 13 BP.
; AC ABC82686;
; XX
; XX 21-FEB-2002 (first entry)
; DT
; XX Oligonucleotide SEQ ID NO 82703 for detecting SNP TSC0020856.
; DE
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX
```

```

; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX WO200177384-A2.
; XX 18-OCT-2001.
; XX PD
; XX 06-APR-2001; 2001WO-IB00713.
; XX PR
; XX 07-APR-2000; 2000DE-1019173.
; XX PA (EPIG-) EPIGENOMICS AG.
; XX PI Olek A, Piepenbrock C, Berlin K;
; XX DR WPI; 2001-657177/75.
; XX PR Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX PT designed to detect single nucleotide polymorphisms and cytosine
; XX PT methylation status -
; PS Claim 1; SEQ ID 82703; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; CC Sequence 13 BP; 7 A; 0 C; 2 G; 4 T; 0 other;
; SQ
; ABC82686 Length: 13 September 17, 2003 14:26 Type: N Check: 6685 ..
; abc82686

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTTT 2755
Db 12 TAAATTCCTCTT 1

RESULT 229
abc82687
TOIG of: abc82687 check: 6682 from: 1 to: 13
; ID ABC82687 standard; DNA; 13 BP.
; AC ABC82687;
; XX
; XX 21-FEB-2002 (first entry)
; DT
; XX Oligonucleotide SEQ ID NO 82704 for detecting SNP TSC0020856.
; DE
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX WO200177384-A2.
; PN
; XX 18-OCT-2001.
; PD
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; XX 06-APR-2001; 2001WO-IB00713.
; PR
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPiG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 82704; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 2 C; 0 G; 7 T; 0 other;
; AB02687 Length: 13 September 17, 2003 14:26 Type: N Check: 6962 ..
; abc82687

Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTT 2755
Db 2 TAAATTCCTT 13

RESULT 230
abc88198/c
; TOIG of: abc88198 check: 6920 from: 1 to: 13
; ID ABC88198 standard; DNA; 13 BP.
; XX
; AC ABC88198;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 88215 for detecting SNP TSC0022168.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;

```

```

; XX WPI; 2001-657177/75.
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 88215; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 2 G; 7 T; 0 other;
; ABC88198 Length: 13 September 17, 2003 14:26 Type: N Check: 6920 ..
; abc88198

Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAATTT 2750
Db 12 CTCATTAATTT 1

RESULT 231
abc88199
; TOIG of: abc88199 check: 6586 from: 1 to: 13
; ID ABC88199 standard; DNA; 13 BP.
; XX
; AC ABC88199;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 88216 for detecting SNP TSC0022168.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 88216; 29pp + Sequence Listing; German.

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CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
XX
SQ Sequence 13 BP; 4 A; 0 C; 1 G; 8 T; 0 other;

ABC92296 Length: 13 September 17, 2003 14:26 Type: N Check: 7377 ..
abc92296

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. NO.1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATATAATTCCT 2753
|||
12 AAAAAAATTCCT 1

RESULT 233
abc92297
TOIG of abc92297 check: 6773 from: 1 to: 13

ID ABC92297 standard; DNA; 13 BP.
XX
XX ABC92297;
AC
XX
XX ABC92297;
DT 21-FEB-2002 (first entry)
DE
XX Oligonucleotide SEQ ID NO 92314 for detecting SNP TSC0023077.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
OS
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-1B00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 92314; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 other;

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```
: ABC92297 Length: 13 September 17, 2003 14:26 Type: N Check: 6773 ..
abc92297

Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 CATATAATCTT 2753
DB 2 AAAAAAAAACTCTT 13

RESULT 234
abc93570/c
TOIG of: abc93570 check: 6673 from: 1 to: 13

: ID ABC93570 standard; DNA; 13 BP.
: AC ABC93570;
: XX
: XX 21-FEB-2002 (first entry)
: DE Oligonucleotide SEQ ID NO 93587 for detecting SNP TSC0023381.
: XX
: XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
: KM peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
: KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
: OS Homo sapiens.
: XX WO200177384-A2.
: XX 18-OCT-2001.
: PD 06-APR-2001; 2001WO-IB00713.
: PE 07-APR-2000; 2000DE-1019173.
: PR
: XX (EPIC-) EPIGENOMICS AG.
: PA
: PI Olek A, Piepenbrock C, Berlin K;
: XX WPI; 2001-657177/75.
: DR
: XX
: XX Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status.
: XX
: PS Claim 1; SEQ ID 93587; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC AB100010-AB182073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pcl_sequences.
: XX
: SQ Sequence 13 BP; 5 A; 0 C; 3 G; 5 T; 0 other;
: ABC93570 Length: 13 September 17, 2003 14:26 Type: N Check: 6673 ..
abc93570

Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATAATAAT 2750
DB 2 CTCATAATAACTT 13

RESULT 236
abf02274/c
TOIG of: abf02274 check: 6838 from: 1 to: 13
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Db 12 CTCATAATAACTT 1
|||||||
RESULT 235
abc93571
TOIG of: abc93571 check: 6633 from: 1 to: 13

: ID ABC93571 standard; DNA; 13 BP.
: AC ABC93571;
: XX
: XX 21-FEB-2002 (first entry)
: DE Oligonucleotide SEQ ID NO 93588 for detecting SNP TSC0023381.
: XX
: XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
: KM peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
: KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
: OS Homo sapiens.
: XX WO200177384-A2.
: XX 18-OCT-2001.
: PD 06-APR-2001; 2001WO-IB00713.
: PE 07-APR-2000; 2000DE-1019173.
: PR
: XX (EPIC-) EPIGENOMICS AG.
: PA
: PI Olek A, Piepenbrock C, Berlin K;
: XX WPI; 2001-657177/75.
: DR
: XX
: XX Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status.
: XX
: PS Claim 1; SEQ ID 93588; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC AB100010-AB182073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pcl_sequences.
: XX
: SQ Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 other;
: ABC93571 Length: 13 September 17, 2003 14:26 Type: N Check: 6633 ..
abc93571

Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATAATAAT 2750
DB 2 CTCATAATAACTT 13

RESULT 236
abf02274/c
TOIG of: abf02274 check: 6838 from: 1 to: 13
```



```

; ID ABF02274 standard; DNA; 13 BP.
; XX
; AC ABF02274;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 102271 for detecting SNP TSC0025499.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDEMIOLOGICS AG.
; PL Olek A. Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 102271; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABP99989, ABH00010-ABH99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 other;
; ABF02274 Length: 13 September 17, 2003 14:26 Type: N Check: 6838 ..
; ABF02274
;
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
QY 2742 AATTAATTTCTT 2753
; 13 AATTAATTTCTT 2
; DB
;
RESULT 237
; ABF02275 check: 6816 from: 1 to: 13
; TOIG of: abf02275
; ID ABF02275 standard; DNA; 13 BP.
; XX
; AC ABF02275;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 102272 for detecting SNP TSC0025499.
; XX

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; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIDEMIOLOGICS AG.
; PL Olek A. Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 102272; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABP99989, ABH00010-ABH99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 2 C; 0 G; 6 T; 0 other;
; ABF02275 Length: 13 September 17, 2003 14:26 Type: N Check: 6816 ..
; ABF02275
;
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
QY 2742 AATTAATTTCTT 2753
; 1 AATTAATTTCTT 12
; DB
;
RESULT 238
; ABF08912 check: 6921 from: 1 to: 13
; TOIG of: abf08912
; ID ABF08912 standard; DNA; 13 BP.
; XX
; AC ABF08912;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 108909 for detecting SNP TSC0027261.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; XX

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; PD 18-OCT-2001.
; PE
; PR 06-APR-2001; 2001MO-IB00713.
; PA
; XX 07-APR-2000; 2000DE-1019173.
; XX (EPiG-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1; SEQ ID 108910; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 2 G; 7 T; 0 other;
;
; ABF08912 Length: 13 September 17, 2003 14:26 Type: N Check: 6921 ..
; abf08912
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2739 CTCGATTAATTT 2750
; DB 12 CACATTAATTT 1
;
; RESULT 239
; abf08913
; TOIG of: abf08913 check: 6554 from: 1 to: 13
;
; ID ABF08913 standard; DNA; 13 BP.
; AC ABF08913;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 108910 for detecting SNP TSC0027261.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001MO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX

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; PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1; SEQ ID 108910; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 7 A; 2 C; 0 G; 4 T; 0 other;
;
; ABF08913 Length: 13 September 17, 2003 14:26 Type: N Check: 6554 ..
; abf08913
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2739 CTCGATTAATTT 2750
; DB 2 CACATTAATTT 13
;
; RESULT 240
; abf10568
; TOIG of: abf10568 check: 7378 from: 1 to: 13
;
; ID ABF10568 standard; DNA; 13 BP.
; AC ABF10568;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 110565 for detecting SNP TSC0027593.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001MO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS

```

```

; PS Claim 1; SEQ ID 110565; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 4 A; 0 C; 0 G; 9 T; 0 other;
; SQ
; ABFI0568 Length: 13 September 17, 2003 14:26 Type: N Check: 7378 ..
; abfi0568
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2744 TAAATTCCTTT 2755
; Db 1 TAAATTCCTTT 12
;
; RESULT 241
; abfi0569/c
; TOIG of: abfi0569 check: 6713 from: 1 to: 13
;
; ID ABFI0569 standard; DNA; 13 BP.
; XX
; AC ABFI0569;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 110566 for detecting SNP TSC002593.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 110566; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 4 A; 0 C; 0 G; 9 T; 0 other;
; SQ

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; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 9 A; 0 C; 0 G; 4 T; 0 other;
; SQ
; ABFI0569 Length: 13 September 17, 2003 14:26 Type: N Check: 6713 ..
; abfi0569
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2744 TAAATTCCTTT 2755
; Db 13 TAAATTCCTTT 2
;
; RESULT 242
; abfi6840/c
; TOIG of: abfi6840 check: 6687 from: 1 to: 13
;
; ID ABFI6840 standard; DNA; 13 BP.
; XX
; AC ABFI6840;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 116837 for detecting SNP TSC0029237.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 116837; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-AB000010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 8 A; 0 C; 1 G; 4 T; 0 other;
; SQ

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; ABF16840 Length: 13 September 17, 2003 14:26 Type: N Check: 6687 ..
abf16840
Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2746 AAATCTTTCT 2757
Db 1111111111
12 AAATATTTTCT 1

RESULT 243
abf16841
; TOIG of: abf16841 check: 7136 from: 1 to: 13
; ID ABF16841 standard; DNA; 13 BP.
; AC ABF16841;
; XX
; DF 21-FEB-2002 (first entry)
; DE oligonucleotide SEQ ID NO 116838 for detecting SNP TSC0029237.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PI 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 116838; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 1 C; 0 G; 8 T; 0 other;
; ABF16841 Length: 13 September 17, 2003 14:26 Type: N Check: 7136 ..
abf16841
Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 2746 AAATCTTTCT 2757
Db 1111111111
2 AAATATTTTCT 13

RESULT 244
abf16842/c
; TOIG of: abf16842 check: 6554 from: 1 to: 13
; ID ABF16842 standard; DNA; 13 BP.
; AC ABF16842;
; XX
; DF 21-FEB-2002 (first entry)
; DE oligonucleotide SEQ ID NO 116839 for detecting SNP TSC0029237.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PI 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 116839; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 9 A; 0 C; 1 G; 3 T; 0 other;
; ABF16842 Length: 13 September 17, 2003 14:26 Type: N Check: 6554 ..
abf16842
Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2746 AAATCTTTCT 2757
Db 1111111111
12 AAATATTTTCT 1

RESULT 245
abf16843
; TOIG of: abf16843 check: 7269 from: 1 to: 13
```

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; ID ABL16843 standard; DNA; 13 BP.
; XX
; KW ABL16843;
; AC
; XX
; DT 21-FEB-2002 (first entry)
; DE
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PP 07-APR-2000; 2000DE-1019173.
; PR
; PS (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PT WPI: 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 116840; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989 and
; CC ABR00010-ABR82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 3 A; 1 C; 0 G; 9 T; 0 other;
; SQ
; ABL16843 Length: 13 September 17, 2003 14:26 Type: N Check: 7269 ..
; abf16843

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. NO. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2746 AATCTCTTCT 2757
DB 2 AATCTCTTCT 13

RESULT 246
abf18888/c
; TOIG of: abf18888 check: 6867 from: 1 to: 13
; ID ABL18888 standard; DNA; 13 BP.
; XX
; AC ABL18888;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 118885 for detecting SNP TSC0029677.
; XX

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```

; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PP 07-APR-2000; 2000DE-1019173.
; PR
; PS (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PT WPI: 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 118885; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989 and
; CC ABR00010-ABR82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
; SQ
; ABL18888 Length: 13 September 17, 2003 14:26 Type: N Check: 6867 ..
; abf18888

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. NO. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2743 ATAAATTCCTT 2754
DB 12 ATAAATTCCTT 1

RESULT 247
abf18889
; TOIG of: abf18889 check: 7171 from: 1 to: 13
; ID ABL18889 standard; DNA; 13 BP.
; XX
; AC ABL18889;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 118886 for detecting SNP TSC0029677.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.

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; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001: 2001WO-IB00713.
; PF
; XX 07-APR-2000: 2000DE-1019173.
; PR
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; PS
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; CC
; XX Claim 1; SEQ ID 118886; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 1 C; 0 G; 1 T; 0 other;
; ABF18889 Length: 13 September 17, 2003 14:26 Type: N Check: 7171 ..
; abf18889
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2743 ATAAATTCCTT 2754
| | | | |
Db 2 ATAAATTCCTT 13
RESULT 248
abf27282/c
; TOIG of: abf27282 check: 6826 from: 1 to: 13
; ID ABF27282 standard; DNA: 13 BP.
; XX
; AC ABF27282;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 127279 for detecting SNP TSC0031854.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001: 2001WO-IB00713.
; PR 07-APR-2000: 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.

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; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; PS
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; CC
; XX Claim 1; SEQ ID 127279; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
; ABF27282 Length: 13 September 17, 2003 14:26 Type: N Check: 6826 ..
; abf27282
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2740 TCAATTAATTC 2751
| | | | |
Db 13 TTAATTAATTC 2
RESULT 249
abf27283
; TOIG of: abf27283 check: 6516 from: 1 to: 13
; ID ABF27283 standard; DNA: 13 BP.
; XX
; AC ABF27283;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 127280 for detecting SNP TSC0031854.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001: 2001WO-IB00713.
; PR 07-APR-2000: 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; PI
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; PS
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.

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```

; XX Claim 1; SEQ ID 127280; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other:
; ABF27283 Length: 13 September 17, 2003 14:26 Type: N Check: 6516 ..
; abf27283
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2740 TCATTAATTCATTC 2751
Db 1 TTAATAAATTC 12
RESULT 250
abf28274/c
; TOIG of: abf28274 check: 6863 from: 1 to: 13
; ID ABE28274 standard; DNA; 13 BP.
; AC ABE28274;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 128271 for detecting SNP TSC0032120.
; XX
; SN: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PA WO200177384-A2.
; PN
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PT (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; XX Claim 1; SEQ ID 128271; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.

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; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 0 C; 1 G; 6 T; 0 other:
; ABF28274 Length: 13 September 17, 2003 14:26 Type: N Check: 6863 ..
; abf28274
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2744 TAAATTCATTCATTC 2755
Db 13 TAAATTCATTCATTC 2
RESULT 251
abf28275
; TOIG of: abf28275 check: 6824 from: 1 to: 13
; ID ABE28275 standard; DNA; 13 BP.
; AC ABE28275;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 128272 for detecting SNP TSC0032120.
; XX
; SN: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PA WO200177384-A2.
; PN
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PT (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; XX Claim 1; SEQ ID 128272; 29pp + Sequence Listing; German.
; PS
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.

```

Sequence 13 BP; 6 A; 1 C; 0 G; 6 T; 0 other;
 ABF28275 Length: 13 September 17, 2003 14:26 Type: N Check: 6824 ..
 abf28275

Query Match 52.0%; Score 10.4; DB 1; Length 13;
 Best Local Similarity 91.7%; Pred. No. 1.2e+02;
 Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATTCCTTTT 2755
 |||||
 1 TAAATTCATTT 12

RESULT 252
 abf34262/c
 TOIG of: abf34262 check: 6544 from: 1 to: 13

ID ABF34262 standard; DNA; 13 BP.

AC ABF34262;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 134259 for detecting SNP TSC0033465.

KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

OS central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001MO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PI WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status

PS Claim 1; SEQ ID 134259; 29pp + Sequence listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation.

XX AB000010-AB182073 represent the oligomers described in the invention

XX NOTE: The sequence data for this patent did not form part of the printed

XX specification, but was obtained in electronic format from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences.

OY 2746 AAATTCCTTTCT 2757
 |||||
 12 AACTTCCTTTCT 1

RESULT 253
 abf34263
 TOIG of: abf34263 check: 7141 from: 1 to: 13

ID ABF34263 standard; DNA; 13 BP.

AC ABF34263;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 134260 for detecting SNP TSC0033465.

KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

OS central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001MO-IB00713.

PR 07-APR-2000; 2000DE-1019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

PI WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single nucleotide polymorphisms and cytosine

PT methylation status

PS Claim 1; SEQ ID 134260; 29pp + Sequence listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic

XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX and cytosine methylation status in chemically pretreated genomic DNA. The

XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX range of diseases including immune system, gastrointestinal, respiratory,

XX central nervous system, cardiovascular and metabolic disorders. The

XX oligomers are also used for detecting cell type differentiation.

XX AB000010-AB182073 represent the oligomers described in the invention.

XX NOTE: The sequence data for this patent did not form part of the printed

XX specification, but was obtained in electronic format from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences.

OY 2746 AAATTCCTTTCT 2757
 |||||
 2 AACTTCCTTTCT 13

RESULT 254
 abf36502


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; TOIG of: abf36502 check: 7289 from: 1 to: 13
; ID AEF36502 standard; DNA: 13 BP.
; AC AEF36502;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 136499 for detecting SNP TSC0034107.
; XX
; SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DB-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 136499; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 0 C; 1 G; 8 T; 0 other;
; ABF36502 Length: 13 September 17, 2003 14:26 Type: N Check: 7289 ..
; abf36502
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
DB 2 TAAATTTT 13
RESULT 255
abf36503/c
; TOIG of: abf36503 check: 6663 from: 1 to: 13
; ID ABF36503 standard; DNA: 13 BP.
; AC ABF36503;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 136500 for detecting SNP TSC0034107.
; XX
; SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 136500; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 other;
; ABF36503 Length: 13 September 17, 2003 14:26 Type: N Check: 6663 ..
; abf36503
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
DB 12 TAAATTTT 1
RESULT 256
abf37534/c
; TOIG of: abf37534 check: 6748 from: 1 to: 13
; ID ABR37534 standard; DNA: 13 BP.
; AC ABR37534;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 137531 for detecting SNP TSC0034382.
; XX
; SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.

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; DE Oligonucleotide SEQ ID NO 136500 for detecting SNP TSC0034107.
; XX
; SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001MO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 136500; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 other;
; ABF36503 Length: 13 September 17, 2003 14:26 Type: N Check: 6663 ..
; abf36503
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
DB 12 TAAATTTT 1
RESULT 256
abf37534/c
; TOIG of: abf37534 check: 6748 from: 1 to: 13
; ID ABR37534 standard; DNA: 13 BP.
; AC ABR37534;
; XX
; DT 21-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 137531 for detecting SNP TSC0034382.
; XX
; SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.

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; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 137531; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 13 BP; 7 A; 0 C; 2 G; 4 T; 0 other;
; XX
; ABF37534 Length: 13 September 17, 2003 14:26 Type: N Check: 6748 ..
; abf37534

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2746 AAATCTTTCT 2757
DB 12 AAATCTTTCT 1

RESULT 257
abf37535
; TOIG of: abf37535 check: 7036 from: 1 to: 13
; ID ABF37535 standard; DNA; 13 BP.
; XX
; AC ABF37535;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 137532 for detecting SNP TSC0034382.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
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; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 137532; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 13 BP; 4 A; 2 C; 0 G; 7 T; 0 other;
; XX
; ABF37535 Length: 13 September 17, 2003 14:26 Type: N Check: 7036 ..
; abf37535

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2746 AAATCTTTCT 2757
DB 2 AAATCTTTCT 13

RESULT 258
abf40388
; TOIG of: abf40388 check: 7274 from: 1 to: 13
; ID ABF40388 standard; DNA; 13 BP.
; XX
; AC ABF40388;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 140385 for detecting SNP TSC0035188.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
```

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PT methylation status -
XX
PS Claim 1; SEQ ID 140385; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH2073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 4 A; 0 C; 1 G; 8 T; 0 other;
ABF40388 Length: 13 September 17, 2003 14:26 Type: N Check: 7274 ..
Abf40388
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
Db 1 TAAATTCCTTT 12
RESULT 259
abf40389/c
TOIG of: abf40389 check: 6725 from: 1 to: 13
XX ID ABF40389 standard; DNA; 13 BP.
XX AC ABF40389;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 140386 for detecting SNP TSC0035188.
XX SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX WO200177384-A2.
XX PN 18-OCT-2001.
XX PR 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX DR
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 140386; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABH00010-ABH2073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
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CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH2073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 other;
ABF40389 Length: 13 September 17, 2003 14:26 Type: N Check: 6725 ..
abf40389
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAATTCCTTT 2755
Db 13 TAAATTCCTTT 2
RESULT 260
abf43612/c
TOIG of: abf43612 check: 6951 from: 1 to: 13
XX ID ABF43612 standard; DNA; 13 BP.
XX AC ABF43612;
XX DT 21-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 143609 for detecting SNP TSC0036052.
XX SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX OS Homo sapiens.
XX WO200177384-A2.
XX PN 18-OCT-2001.
XX PR 06-APR-2001; 2001WO-IB00713.
XX PR 07-APR-2000; 2000DE-1019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX DR
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX Claim 1; SEQ ID 143609; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX ABH00010-ABH2073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
```

```
; XX Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
; SQ ABR43612 Length: 13 September 17, 2003 14:26 Type: N Check: 6951 ..
; abf43612
Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2743 ATAAATTCCTT 2754
Db 13 ATAAATTCCTCT 2

RESULT 261
abf43613
; TOIG of: abf43613 check: 6696 from: 1 to: 13
; ID ABR43613 standard; DNA; 13 BP.
; XX
; AC ABR43613;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 143610 for detecting SNP TSC0036052.
; XX
; OS SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-1B00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 143610; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABIC00010-ABIC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABIC00010-ABIC82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
; ABR43613 Length: 13 September 17, 2003 14:26 Type: N Check: 6696 ..
; abf43613
Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
```

```
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2743 ATAAATTCCTT 2754
Db 1 ATAAATTCCTCT 12

RESULT 262
abf44456/c
; TOIG of: abf44456 check: 6715 from: 1 to: 13
; ID ABR44456 standard; DNA; 13 BP.
; XX
; AC ABR44456;
; XX
; DT 21-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 144453 for detecting SNP TSC0036319.
; XX
; OS SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-1B00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 144453; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABIC00010-ABIC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABIC00010-ABIC82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 1 G; 4 T; 0 other;
; ABR44456 Length: 13 September 17, 2003 14:26 Type: N Check: 6715 ..
; abf44456
Query Match          52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2744 TAAATTCCTT 2755
Db 12 TAAATTCCTT 1

RESULT 263
```

```
abf44457
; TOIG of: abf44457 check: 7285 from: 1 to: 13
; ID ABE44457 standard; DNA; 13 BP.
; XX ABE44457;
; AC
; XX 21-FEB-2002 (first entry)
; DT
; DE Oligonucleotide SEQ ID NO 144454 for detecting SNP TSC0036319.
; XX
; OS SNP: single nucleotide polymorphism; human; diagnosis; PMA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; PS Claim 1; SEQ ID 144454; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 4 A; 1 C; 0 G; 8 T; 0 other;
; SQ
; ABF44457 Length: 13 September 17, 2003 14:26 Type: N Check: 7285 ..
; abf44457

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2744 TAAATTCCTTTT 2755
DB 2 TAAATTCCTTTT 13

RESULT 264
abf53074/c
; TOIG of: abf53074 check: 6856 from: 1 to: 13
; ID ABF53074 standard; DNA; 13 BP.
; XX
; AC ABF53074;
; XX
; XX 21-FEB-2002 (first entry)
; DT
; OS Homo sapiens.

; XX Oligonucleotide SEQ ID NO 153071 for detecting SNP TSC0038689.
; DE
; XX SNP: single nucleotide polymorphism; human; diagnosis; PMA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; PS Claim 1; SEQ ID 153071; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 3 A; 0 C; 4 G; 6 T; 0 other;
; SQ
; ABF53074 Length: 13 September 17, 2003 14:26 Type: N Check: 6856 ..
; abf53074

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAATTT 2750
DB 12 CTCATTAATTT 1

RESULT 265
abf53075
; TOIG of: abf53075 check: 6543 from: 1 to: 13
; ID ABF53075 standard; DNA; 13 BP.
; XX
; AC ABF53075;
; XX
; XX 21-FEB-2002 (first entry)
; DT
; DE Oligonucleotide SEQ ID NO 153072 for detecting SNP TSC0038689.
; XX
; OS SNP: single nucleotide polymorphism; human; diagnosis; PMA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
```

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; XX WO200177384-A2.
; PA
; XX 18-OCT-2001.
; PD
; XX
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PR
; XX 07-APR-2000; 2000DE-1019173.
; PA
; XX (EPIC-) EPIGENOMICS AG.
; PI
; XX Olek A, Piepenbrock C, Berlin K;
; DR
; XX WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 153072; 29pp + Sequence Listing; German.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 13 BP; 6 A; 4 C; 0 G; 3 T; 0 other;
; SO
; ABF53075 Length: 13 September 17, 2003 14:26 Type: N Check: 6543 ..
; abf53075

Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAAT 2750
Db 2 CCCAATAAAT 13

RESULT 266
abf62044/c
; TOIG of: abf62044 check: 6743 from: 1 to: 13
; ID ABF62044 standard; DNA; 13 BP.
; XX
; AC ABF62044;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX
; XX Oligonucleotide SEQ ID NO 162041 for detecting SNP TSC0040776.
; DE
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PA
; XX 18-OCT-2001.
; PD
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; XX 07-APR-2000; 2000DE-1019173.
; PR
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; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; DR
; XX WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 162041; 29pp + Sequence Listing; German.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
; SO
; ABF62044 Length: 13 September 17, 2003 14:26 Type: N Check: 6743 ..
; abf62044

Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAAT 2750
Db 13 CCCAATAAAT 2

RESULT 267
abf62045
; TOIG of: abf62045 check: 6664 from: 1 to: 13
; ID ABF62045 standard; DNA; 13 BP.
; XX
; AC ABF62045;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX
; XX Oligonucleotide SEQ ID NO 162042 for detecting SNP TSC0040776.
; DE
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PA
; XX 18-OCT-2001.
; PD
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; DR
; XX WPI; 2001-657177/75.
; PR Set of oligonucleotides, useful for diagnosis and cell typing, is
```

PR designed to detect single nucleotide polymorphisms and cytosine
methylation status -
XX
XX
PS Claim 1; SEQ ID 162042; 29pp + Sequence Listing; German.
CC This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pcr_sequences.
XX
SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
ABF62045 Length: 13 September 17, 2003 14:26 Type: N Check: 6664 ..
abf62045

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 CTCATTAATTT 2750
|||||
Db 1 CTCATTAATTT 12

RESULT 268
abf68732/c
TOIG of: abf68732 check: 7040 from: 1 to: 13

ID ABF68732 standard; DNA; 13 BP.
XX
AC ABF68732;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 168729 for detecting SNP TSC0042189.
XX
SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status -
XX
XX
PS Claim 1; SEQ ID 168729; 29pp + Sequence Listing; German.
CC This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pcr_sequences.

CC Oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pcr_sequences.
XX
SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
ABF6732 Length: 13 September 17, 2003 14:26 Type: N Check: 7040 ..
abf6732

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2445 AAAATCTTTTC 2756
|||||
Db 12 AAAATCTTTTC 1

RESULT 269
abf68733
TOIG of: abf68733 check: 6774 from: 1 to: 13

ID ABF68733 standard; DNA; 13 BP.
XX
AC ABF68733;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 168730 for detecting SNP TSC0042189.
XX
SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status -
XX
XX
PS Claim 1; SEQ ID 168730; 29pp + Sequence Listing; German.
CC This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at

```
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other:
ABF68733 Length: 13 September 17, 2003 14:26 Type: N Check: 6774
abf68733

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2745 AAAATTCCTTTC 2756
    |||||
    2 AAAATTCCTTAC 13

RESULT 270
abf72074/c
TOIG of: abf72074 check: 7025 from: 1 to: 13

ID ABE72074 standard; DNA; 13 BP.
XX
AC ABE72074
XX
DT 22-FEB-2002 (first entry)
XX
DE oligonucleotide SEQ ID NO 172071 for detecting SNP TSC0042903.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIDENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PS WPI; 2001-657177/75.
XX
DR
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 172071; 29pp + sequence listing; German.
XX
XX
This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABE00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other:
ABE72074 Length: 13 September 17, 2003 14:26 Type: N Check: 7025
abf72074

Query Match 52.0%; Score 10.4; DB 1; Length 13;
```

```
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2741 CAATAAATTCCT 2752
    |||||
    12 CAATAAATTCCT 1

RESULT 271
abf72075
TOIG of: abf72075 check: 6836 from: 1 to: 13

ID ABE72075 standard; DNA; 13 BP.
XX
AC ABE72075;
XX
DT 22-FEB-2002 (first entry)
XX
DE oligonucleotide SEQ ID NO 172072 for detecting SNP TSC0042903.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIDENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PS WPI; 2001-657177/75.
XX
DR
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 172072; 29pp + sequence listing; German.
XX
XX
This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABE00010-ABF99989, ABH00010-ABH99989 and
CC ABI00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other:
ABE72075 Length: 13 September 17, 2003 14:26 Type: N Check: 6836
abf72075

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2741 CAATAAATTCCT 2752
    |||||
    2 CAATAAATTCCT 13
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RESULT 272
abf73598/c
; TOIG of: abf73598 check: 6809 from: 1 to: 13
; ID ABF73598 standard; DNA: 13 BP.
; AC ABF73598;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 173595 for detecting SNP TSC0043231.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PS (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS Claim 1; SEQ ID 173595; 29pp + Sequence Listing; German.
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; designed to detect single nucleotide polymorphisms and cytosine
; methylation status -
; PT methylation status -
; PS
; PS Claim 1; SEQ ID 173595; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; and cytosine methylation status in chemically pretreated genomic DNA. The
; oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; range of diseases including immune system, gastrointestinal, respiratory,
; central nervous system, cardiovascular and metabolic disorders. The
; oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; specification, but was obtained in electronic format from WIPO at
; ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
; SQ
; ABF73598 Length: 13 September 17, 2003 14:26 Type: N Check: 6809
; abf73598

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2741 CATAAATTCCT 2752
Db 13 CTAATAAATTCCT 2

RESULT 273
abf73599
; TOIG of: abf73599 check: 6642 from: 1 to: 13
; ID ABF73599 standard; DNA: 13 BP.
; AC ABF73599;
; XX
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; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 173596 for detecting SNP TSC0043231.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PS (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS Claim 1; SEQ ID 173596; 29pp + Sequence Listing; German.
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; designed to detect single nucleotide polymorphisms and cytosine
; methylation status -
; PT methylation status -
; PS
; PS Claim 1; SEQ ID 173596; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; and cytosine methylation status in chemically pretreated genomic DNA. The
; oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; range of diseases including immune system, gastrointestinal, respiratory,
; central nervous system, cardiovascular and metabolic disorders. The
; oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABH00010-ABH99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; specification, but was obtained in electronic format from WIPO at
; ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
; SQ
; ABF73599 Length: 13 September 17, 2003 14:26 Type: N Check: 6642
; abf73599

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2741 CATAAATTCCT 2752
Db 1 CTAATAAATTCCT 12

RESULT 274
abf76506/c
; TOIG of: abf76506 check: 6647 from: 1 to: 13
; ID ABF76506 standard; DNA: 13 BP.
; AC ABF76506;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 176503 for detecting SNP TSC0043805.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PS (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS Claim 1; SEQ ID 176503; 29pp + Sequence Listing; German.
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; designed to detect single nucleotide polymorphisms and cytosine
; methylation status -
; PT methylation status -
; PS
; PS Claim 1; SEQ ID 176503; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; and cytosine methylation status in chemically pretreated genomic DNA. The
; oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; range of diseases including immune system, gastrointestinal, respiratory,
; central nervous system, cardiovascular and metabolic disorders. The
; oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABH00010-ABH99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; specification, but was obtained in electronic format from WIPO at
; ftp.wipo.int/pub/published_pct_sequences.
; CC
; CC Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
; SQ
; ABF76506 Length: 13 September 17, 2003 14:26 Type: N Check: 6647
; abf76506
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/ OS Homo sapiens.
/ XX
/ PN WO200177384-A2.
/ PA
/ XX 18-OCT-2001.
/ PD
/ XX
/ PF 06-APR-2001; 2001WO-IB00713.
/ PR 07-APR-2000; 2000DE-1019173.
/ PA (EPIC-) EPIGENOMICS AG.
/ PI Olek A, Piepenbrock C, Berlin K;
/ PI WPI; 2001-657177/75.
/ DR
/ PT Set of oligonucleotides, useful for diagnosis and cell typing, is
/ PT designed to detect single nucleotide polymorphisms and cytosine
/ PT methylation status.
/ PS
/ PS Claim 1; SEQ ID 176503; 29pp + Sequence Listing; German.
/ CC This invention describes novel oligonucleotide primers or peptide nucleic
/ CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
/ CC and cytosine methylation status in chemically pretreated genomic DNA. The
/ CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
/ CC range of diseases including immune system, gastrointestinal, respiratory,
/ CC central nervous system, cardiovascular and metabolic disorders. The
/ CC oligomers are also used for detecting cell type differentiation.
/ CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
/ CC AB100010-AB182073 represent the oligomers described in the invention.
/ CC NOTE: The sequence data for this patent did not form part of the printed
/ CC specification, but was obtained in electronic format from WIPO at
/ CC ftp.wipo.int/pub/published_pct_sequences.
/ XX
/ SQ Sequence 13 BP; 5 A; 0 C; 3 G; 5 T; 0 other;
/ ABF76506 Length: 13 September 17, 2003 14:26 Type: N Check: 6647 ..
/ abf76506
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2739 CTCATTAAT 2750
Db 12 CTCATTAAT 1
RESULT 275
abf76507
/ TOIG of: abf76507 check: 6629 from: 1 to: 13
/ ID ABF76507 standard; DNA; 13 BP.
/ XX
/ AC ABF76507;
/ XX
/ DT 22-FEB-2002 (first entry)
/ DE Oligonucleotide SEQ ID NO 176504 for detecting SNP TSC0043805.
/ XX
/ OS Homo sapiens.
/ XX
/ PN WO200177384-A2.
/ PA
/ PD 18-OCT-2001.
/ PF 06-APR-2001; 2001WO-IB00713.
/ PR
/ PA (EPIC-) EPIGENOMICS AG.
/ PI Olek A, Piepenbrock C, Berlin K;
/ PI WPI; 2001-657177/75.
/ DR
/ PT Set of oligonucleotides, useful for diagnosis and cell typing, is
/ PT designed to detect single nucleotide polymorphisms and cytosine
/ PT methylation status.
/ PS
/ PS Claim 1; SEQ ID 176503; 29pp + Sequence Listing; German.
/ CC This invention describes novel oligonucleotide primers or peptide nucleic
/ CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
/ CC and cytosine methylation status in chemically pretreated genomic DNA. The
/ CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
/ CC range of diseases including immune system, gastrointestinal, respiratory,
/ CC central nervous system, cardiovascular and metabolic disorders. The
/ CC oligomers are also used for detecting cell type differentiation.
/ CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
/ CC AB100010-AB182073 represent the oligomers described in the invention.
/ CC NOTE: The sequence data for this patent did not form part of the printed
/ CC specification, but was obtained in electronic format from WIPO at
/ CC ftp.wipo.int/pub/published_pct_sequences.
/ XX
/ SQ Sequence 13 BP; 5 A; 0 C; 3 G; 5 T; 0 other;
/ ABF76506 Length: 13 September 17, 2003 14:26 Type: N Check: 6647 ..
/ abf76506
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/ PR 07-APR-2000; 2000DE-1019173.
/ XX
/ PA (EPIC-) EPIGENOMICS AG.
/ XX
/ PI Olek A, Piepenbrock C, Berlin K;
/ PI WPI; 2001-657177/75.
/ DR
/ PT Set of oligonucleotides, useful for diagnosis and cell typing, is
/ PT designed to detect single nucleotide polymorphisms and cytosine
/ PT methylation status.
/ PS
/ PS Claim 1; SEQ ID 176504; 29pp + Sequence Listing; German.
/ CC This invention describes novel oligonucleotide primers or peptide nucleic
/ CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
/ CC and cytosine methylation status in chemically pretreated genomic DNA. The
/ CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
/ CC range of diseases including immune system, gastrointestinal, respiratory,
/ CC central nervous system, cardiovascular and metabolic disorders. The
/ CC oligomers are also used for detecting cell type differentiation.
/ CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
/ CC AB100010-AB182073 represent the oligomers described in the invention.
/ CC NOTE: The sequence data for this patent did not form part of the printed
/ CC specification, but was obtained in electronic format from WIPO at
/ CC ftp.wipo.int/pub/published_pct_sequences.
/ XX
/ SQ Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 other;
/ ABF76507 Length: 13 September 17, 2003 14:26 Type: N Check: 6629 ..
/ abf76507
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2739 CTCATTAAT 2750
Db 2 CTCATTAAT 13
RESULT 276
abf81158/c
/ TOIG of: abf81158 check: 6724 from: 1 to: 13
/ ID ABF81158 standard; DNA; 13 BP.
/ XX
/ AC ABF81158;
/ XX
/ DT 22-FEB-2002 (first entry)
/ DE Oligonucleotide SEQ ID NO 181155 for detecting SNP TSC004967.
/ XX
/ OS Homo sapiens.
/ XX
/ PN WO200177384-A2.
/ PA
/ PD 18-OCT-2001.
/ PF 06-APR-2001; 2001WO-IB00713.
/ PR 07-APR-2000; 2000DE-1019173.
/ PA (EPIC-) EPIGENOMICS AG.
/ PI Olek A, Piepenbrock C, Berlin K;
/ PI WPI; 2001-657177/75.
/ DR
/ PT Set of oligonucleotides, useful for diagnosis and cell typing, is
/ PT designed to detect single nucleotide polymorphisms and cytosine
/ PT methylation status.
/ PS
/ PS Claim 1; SEQ ID 176504; 29pp + Sequence Listing; German.
/ CC This invention describes novel oligonucleotide primers or peptide nucleic
/ CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
/ CC and cytosine methylation status in chemically pretreated genomic DNA. The
/ CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
/ CC range of diseases including immune system, gastrointestinal, respiratory,
/ CC central nervous system, cardiovascular and metabolic disorders. The
/ CC oligomers are also used for detecting cell type differentiation.
/ CC AB000010-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and
/ CC AB100010-AB182073 represent the oligomers described in the invention.
/ CC NOTE: The sequence data for this patent did not form part of the printed
/ CC specification, but was obtained in electronic format from WIPO at
/ CC ftp.wipo.int/pub/published_pct_sequences.
/ XX
/ SQ Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 other;
/ ABF76507 Length: 13 September 17, 2003 14:26 Type: N Check: 6629 ..
/ abf76507
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: PR Set of oligonucleotides, useful for diagnosis and cell typing, is
: PR designed to detect single nucleotide polymorphisms and cytosine
: PR methylation status
: PS
: XX Claim 1: SEQ ID 181155; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABG00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC ABJ00010-ABJ82073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp://ipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
:
: ABF81158 Length: 13 September 17, 2003 14:26 Type: N Check: 6724 ..
: abf81158
:
: Query Match 52.0%; Score 10.4; DB 1; Length 13;
: Best Local Similarity 91.7%; Pred. No. 1.2e+02;
: Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
:
: OY 2744 TAAATTTT 2755
: 1111111111
: Db 12 TAAATTTT 1
:
: RESULT 277
: abf81159
: TOIG of: abf81159 check: 6940 from: 1 to: 13
:
: ID ABF81159 standard; DNA; 13 BP.
: AC ABF81159;
: XX
: DT 22-FEB-2002 (first entry)
: DE Oligonucleotide SEQ ID NO 181156 for detecting SNP TSC0004967.
: XX
: KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
: XX
: OS Homo sapiens.
: PN
: PN WO200177384-A2.
: PD 18-OCT-2001.
: XX
: PF 06-APR-2001; 2001WO-IB00713.
: PR 07-APR-2000; 2000DE-1019173.
: PA (EPIG-) EPIGENOMICS AG.
: XX
: PI Olek A, Plopenbrock C, Berlin K;
: DR WPI; 2001-657177/75.
: XX
: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status
: XX
: PS Claim 1: SEQ ID 181156; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABG00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC ABJ00010-ABJ82073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp://ipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
:
: ABF81158 Length: 13 September 17, 2003 14:26 Type: N Check: 6724 ..
: abf81158
:
: Query Match 52.0%; Score 10.4; DB 1; Length 13;
: Best Local Similarity 91.7%; Pred. No. 1.2e+02;
: Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
:
: OY 2744 TAAATTTT 2755
: 1111111111
: Db 12 TAAATTTT 1
:
: RESULT 277
: abf81159
: TOIG of: abf81159 check: 6940 from: 1 to: 13
:
: ID ABF81159 standard; DNA; 13 BP.
: AC ABF81159;
: XX
: DT 22-FEB-2002 (first entry)
: DE Oligonucleotide SEQ ID NO 181156 for detecting SNP TSC0004967.
: XX
: KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
: XX
: OS Homo sapiens.
: PN
: PN WO200177384-A2.
: PD 18-OCT-2001.
: XX
: PF 06-APR-2001; 2001WO-IB00713.
: PR 07-APR-2000; 2000DE-1019173.
: PA (EPIG-) EPIGENOMICS AG.
: XX
: PI Olek A, Plopenbrock C, Berlin K;
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: XX
: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status
: XX
: PS Claim 1: SEQ ID 181156; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABG00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC ABJ00010-ABJ82073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp://ipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
:
: ABF81158 Length: 13 September 17, 2003 14:26 Type: N Check: 6724 ..
: abf81158
:
: Query Match 52.0%; Score 10.4; DB 1; Length 13;
: Best Local Similarity 91.7%; Pred. No. 1.2e+02;
: Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
:
: OY 2744 TAAATTTT 2755
: 1111111111
: Db 12 TAAATTTT 1
:
: RESULT 277
: abf81159
: TOIG of: abf81159 check: 6940 from: 1 to: 13
:
: ID ABF81159 standard; DNA; 13 BP.
: AC ABF81159;
: XX
: DT 22-FEB-2002 (first entry)
: DE Oligonucleotide SEQ ID NO 181156 for detecting SNP TSC0004967.
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: KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
: XX
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: PI Olek A, Plopenbrock C, Berlin K;
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: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status
: XX
: PS Claim 1: SEQ ID 181156; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
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: CC ABG00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC ABJ00010-ABJ82073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
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: CC ftp://ipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
:
: ABF81158 Length: 13 September 17, 2003 14:26 Type: N Check: 6724 ..
: abf81158
:
: Query Match 52.0%; Score 10.4; DB 1; Length 13;
: Best Local Similarity 91.7%; Pred. No. 1.2e+02;
: Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
:
: OY 2744 TAAATTTT 2755
: 1111111111
: Db 12 TAAATTTT 1
:
: RESULT 277
: abf81159
: TOIG of: abf81159 check: 6940 from: 1 to: 13
:
: ID ABF81159 standard; DNA; 13 BP.
: AC ABF81159;
: XX
: DT 22-FEB-2002 (first entry)
: DE Oligonucleotide SEQ ID NO 181156 for detecting SNP TSC0004967.
: XX
: KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
: XX
: OS Homo sapiens.
: PN
: PN WO200177384-A2.
: PD 18-OCT-2001.
: XX
: PF 06-APR-2001; 2001WO-IB00713.
: PR 07-APR-2000; 2000DE-1019173.
: PA (EPIG-) EPIGENOMICS AG.
: XX
: PI Olek A, Plopenbrock C, Berlin K;
: DR WPI; 2001-657177/75.
: XX
: PT Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status
: XX
: PS Claim 1: SEQ ID 181156; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABG00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC ABJ00010-ABJ82073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp://ipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
:
: ABF81158 Length: 13 September 17, 2003 14:26 Type: N Check: 6724 ..
: abf81158
:
: Query Match 52.0%; Score 10.4; DB 1; Length 13;
: Best Local Similarity 91.7%; Pred. No. 1.2e+02;
: Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
:
: OY 2744 TAAATTTT 2755
: 1111111111
: Db 12 TAAATTTT 1
:
: RESULT 277
: abf81159
: TOIG of: abf81159 check: 6940 from: 1
```

~~CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABIC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABIC00010-ABI82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.~~

~~SO Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other;~~

~~ABR81159 Length: 13 September 17, 2003 14:26 Type: N Check: 6940 ..
abf81159~~

~~Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;~~

~~OY 2144 TAAAAATCTTTT 2755
|||||||
2 TAAATCTATT 13~~

~~Db~~

~~RESULT 278
abf85172/c
TOIG of: abf85172 check: 7009 from: 1 to: 13~~

~~ID ABR85172 standard; DNA; 13 BP.
XX
AC ABR85172;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 185169 for detecting SNP TSC0045660.
XX
SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-1B00713.
XX
PR 07-APR-2000; 2000DE-1O09173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 185169; 29pp + Sequence Listing; German.
XX
XX~~

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. The ABIC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABIC00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences.

CC Specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 other;
ABF85173 Length: 13 September 17, 2003 14:26 Type: N Check: 7009 ..
abf85173

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 TCATATAAATT 2750
Db 13 TCATATAAATT 2

RESULT 279
abf85173
TOIG of: abf85173 check: 6398 from: 1 to: 13

ID ABF85173 standard; DNA; 13 BP.
XX
XX ABF85173;
AC
XX
XX 22-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide SEQ ID NO 185170 for detecting SNP TSC0045660.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
PN
XX
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB00713.
PE
XX
XX 07-APR-2000; 2000DE-1019173.
PR
XX
XX (EPIC-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PT
XX
XX Claim 1; SEQ ID 185170; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABT00010-ABT82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
XX
XX Sequence 13 BP; 8 A; 2 C; 0 G; 3 T; 0 other;
SQ

ABF85173 Length: 13 September 17, 2003 14:26 Type: N Check: 6398 ..
abf85173

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2739 TCATATAAATT 2750
Db 1 TCATATAAATT 12

RESULT 280
abf89598/c
TOIG of: abf89598 check: 6968 from: 1 to: 13

ID ABF89598 standard; DNA; 13 BP.
XX
XX ABF89598;
AC
XX
XX 22-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide SEQ ID NO 189595 for detecting SNP TSC0046645.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
PN
XX
XX 18-OCT-2001.
PD
XX
XX 06-APR-2001; 2001WO-IB00713.
PE
XX
XX 07-APR-2000; 2000DE-1019173.
PR
XX
XX (EPIC-) EPIGENOMICS AG.
PA
XX
XX Olek A, Piepenbrock C, Berlin K;
PI
XX
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
PT
XX
XX Claim 1; SEQ ID 189595; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABT00010-ABT82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
XX
XX Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 other;
SQ

ABF89598 Length: 13 September 17, 2003 14:26 Type: N Check: 6968 ..
abf89598

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2740 TCATATAAATT 2751
Db 13 TCATATAAATT 2

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RESULT 281
abf89599
; TOIG of: abf89599 check: 6247 from: 1 to: 13
; ID ABE89599 standard; DNA: 13 BP.
; AC ABE89599;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 189596 for detecting SNP TSC0046645.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR (EPIG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PR methylation status
; XX
; PS Claim 1: SEQ ID 189596; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 8 A; 2 C; 0 G; 3 T; 0 other;
; SQ
; ABF89599 Length: 13 September 17, 2003 14:26 Type: N Check: 6247
; abf89599

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 193177 for detecting SNP TSC0000970.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis: PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF 07-APR-2000; 2000DE-1019173.
; PR (EPIG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PR methylation status
; XX
; PS Claim 1: SEQ ID 193177; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 6 A; 0 C; 3 G; 4 T; 0 other;
; SQ
; ABF93180 Length: 13 September 17, 2003 14:26 Type: N Check: 6766
; abf93180

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PE
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI; 2001-65717/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
; XX Claim 1; SEQ ID 194178; 29pp + Sequence Listing; German.
; CC
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; XX Sequence 13 BP; 4 A; 3 C; 0 G; 6 T; 0 other;
; SQ
; XX
; XX ABF93181 Length: 13 September 17, 2003 14:26 Type: N Check: 6849 ..
; abf93181
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2746 AATTCCTTCT 2757
; Db 1 AATTCCTATCT 12
;
; RESULT 284
; abf99486/c
; TOIG of: abf99486 check: 7132 from: 1 to: 13
;
; ID ABF99486 standard; DNA; 13 BP.
; AC ABF99486;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 199483 for detecting SNP TSC0049081.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PE
; XX
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; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI; 2001-65717/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS
; XX Claim 1; SEQ ID 199483; 29pp + Sequence Listing; German.
; CC
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; XX Sequence 13 BP; 3 A; 0 C; 2 G; 8 T; 0 other;
; SQ
; XX
; XX ABF99486 Length: 13 September 17, 2003 14:26 Type: N Check: 7132 ..
; abf99486
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2741 CAATAAATCT 2752
; Db 13 CAATAAATCT 2
;
; RESULT 285
; abf99487
; TOIG of: abf99487 check: 6433 from: 1 to: 13
;
; ID ABF99487 standard; DNA; 13 BP.
; AC ABF99487;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 199484 for detecting SNP TSC0049081.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PE
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX
; XX WPI; 2001-65717/75.
; DR
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; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1, SEQ ID 199484; 29pp + Sequence Listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC SQ Sequence 13 BP; 8 A; 2 C; 0 G; 3 T; 0 other;
; ABF99487 Length: 13 September 17, 2003 14:26 Type: N Check: 6433 ..
; abf99487
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2741 CATTAAATCTT 2752
; Db 1 CATTAAATCTT 12
;
; RESULT 286
; abh01486
; TOIG of: abh01486 check: 6732 from: 1 to: 13
;
; ID ABH01486 standard; DNA; 13 BP.
; AC ABH01486;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 201463 for detecting SNP TSC0049546.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PS (EPIG-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; PS
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1, SEQ ID 201463; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic

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; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC SQ Sequence 13 BP; 8 A; 0 C; 0 G; 5 T; 0 other;
; ABH01486 Length: 13 September 17, 2003 14:26 Type: N Check: 6732 ..
; abh01486
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2742 AATTAATCTT 2753
; Db 1 AATTAATCTT 12
;
; RESULT 287
; abh01487/c
; TOIG of: abh01487 check: 7131 from: 1 to: 13
;
; ID ABH01487 standard; DNA; 13 BP.
; AC ABH01487;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 201464 for detecting SNP TSC0049546.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PS (EPIG-) EPIGENOMICS AG.
; PA Olek A, Piepenbrock C, Berlin K;
; PI WPI; 2001-657177/75.
; PS
; DR
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1, SEQ ID 201464; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.

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CC NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences.

CC Sequence 13 BP; 5 A; 0 C; 0 G; 8 T; 0 other;

ABH01487 Length: 13 September 17, 2003 14:26 Type: N Check: 7131 ..
abH01487

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2742 TAAATTCCTTT 2753

13 TAAATTCCTTT 2

RESULT 288
abH01818/c

TOIG of: abH01818 check: 6816 from: 1 to: 13

ID ABH01818 standard; DNA; 13 BP.

AC ABH01818;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 201795 for detecting SNP TSC0005263.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB00713.

07-APR-2000; 2000DE-1019173.

(EPIC-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status

Claim 1; SEQ ID 201795; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligomers are also used for detecting cell type differentiation.
ABH00010-ABH99989, ABH00010-ABH99989, ABH00010-ABH99989 and
ABH00010-ABH82073 represent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 other;

ABH01818 Length: 13 September 17, 2003 14:26 Type: N Check: 6816 ..
abH01818

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2744 TAAATTCCTTT 2755

13 TAAATTCCTTT 2

RESULT 289

TOIG of: abH01819 check: 6893 from: 1 to: 13

ID ABH01819 standard; DNA; 13 BP.

AC ABH01819;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 201796 for detecting SNP TSC0005263.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB00713.

07-APR-2000; 2000DE-1019173.

(EPIC-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status

Claim 1; SEQ ID 201796; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligomers are also used for detecting cell type differentiation.
ABH00010-ABH99989, ABH00010-ABH99989, ABH00010-ABH99989 and
ABH00010-ABH82073 represent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 5 A; 2 C; 0 G; 6 T; 0 other;

ABH01819 Length: 13 September 17, 2003 14:26 Type: N Check: 6893 ..
abH01819

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2744 TAAATTCCTTT 2755

1 TAAATTCCTTT 12


```

RESULT 290
abn01886/c
TOIG of: abn01886 check: 6863 from: 1 to: 13
; ID ABH01886 standard; DNA; 13 BP.
; XX
; AC ABH01886;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 201863 for detecting SNP TSC0049630.
; XX
; SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO20017384-A2.
; PD 18-OCT-2001.
; PR 06-APR-2001, 2001WO-IB00713.
; PS 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1: SEQ ID 201863; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 5 A; 0 C; 4 G; 4 T; 0 other:
; SQ
; ABH01886 Length: 13 September 17, 2003 14:26 Type: N Check: 6863
; abn01886
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2745 AAAATTCCTTTC 2756
Db 12 AAAATTCCTTTC 1
RESULT 291
abn01887
TOIG of: abn01887 check: 6851 from: 1 to: 13
; ID ABH01887 standard; DNA; 13 BP.
; XX

```

```

; AC ABH01887;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 201864 for detecting SNP TSC0049630.
; XX
; SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO20017384-A2.
; PD 18-OCT-2001.
; PR 06-APR-2001, 2001WO-IB00713.
; PS 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1: SEQ ID 201864; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC ABT00010-ABT99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 4 A; 4 C; 0 G; 5 T; 0 other:
; SQ
; ABH01887 Length: 13 September 17, 2003 14:26 Type: N Check: 6851
; abn01887
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2745 AAAATTCCTTTC 2756
Db 2 AAAATTCCTTTC 13
RESULT 292
abn07922/c
TOIG of: abn07922 check: 6563 from: 1 to: 13
; ID ABH07922 standard; DNA; 13 BP.
; XX
; AC ABH07922;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 207899 for detecting SNP TSC0050840.
; SNR: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

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; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; XX WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX (EPIG-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; PI MPI; 2001-657177/75.
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 207899; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 2 G; 3 T; 0 other;
; ABH07922 Length: 13 September 17, 2003 14:26 Type: N Check: 6563 ..
; abh07922
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAAAATCTTTP 2755
DB 12 TAAACTTCTTTP 1
RESULT 293
abh07923
; TOIG of: abh07923 check: 7161 from: 1 to: 13
; ID ABH07923 standard; DNA; 13 BP.
; XX
; AC ABH07923;
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 207900 for detecting SNP TSC0050840.
; XX
; SN SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; PD 18-OCT-2001.

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; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; PI MPI; 2001-657177/75.
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 207900; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 3 A; 2 C; 0 G; 8 T; 0 other;
; ABH07923 Length: 13 September 17, 2003 14:26 Type: N Check: 7161 ..
; abh07923
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2744 TAAAAATCTTTP 2755
DB 2 TAAACTTCTTTP 13
RESULT 294
abh28336/c
; TOIG of: abh28336 check: 6465 from: 1 to: 13
; ID ABH28336 standard; DNA; 13 BP.
; XX
; AC ABH28336;
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 228313 for detecting SNP TSC0055673.
; XX
; SN SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX Olek A, Piepenbrock C, Berlin K;
; PI

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```

; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 228313; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABF99989, ABF00010-ABH99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 8 A; 0 C; 3 G; 2 T; 0 other;
;
; ABH28336 Length: 13 September 17, 2003 14:26 Type: N Check: 6465 ..
; abh28336
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2746 AATTCCTTCT 2757
; Db 12 AATTCCTTCT 1
;
; RESULT 295
; abh28337
; TOIG of: abh28337 check: 7190 from: 1 to: 13
;
; ID ABH28337 standard; DNA; 13 BP.
; AC ABH28337;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 228314 for detecting SNP TSC0055673.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status
; XX
; Claim 1; SEQ ID 228314; 29pp + Sequence Listing; German.

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```

; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABF99989, ABF00010-ABH99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 2 A; 3 C; 0 G; 8 T; 0 other;
;
; ABH28337 Length: 13 September 17, 2003 14:26 Type: N Check: 7190 ..
; abh28337
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2746 AATTCCTTCT 2757
; Db 2 AATTCCTTCT 13
;
; RESULT 296
; abh28380/c
; TOIG of: abh28380 check: 6842 from: 1 to: 13
;
; ID ABH28380 standard; DNA; 13 BP.
; AC ABH28380;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 228357 for detecting SNP TSC0004658.
; XX
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; CC Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC designed to detect single nucleotide polymorphisms and cytosine
; CC methylation status
; XX
; Claim 1; SEQ ID 228357; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABF99989, ABF00010-ABH99989 and

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Db                12 CTTAAATTAATTT 1
RESULT 299
abh28387
: TOIG of: abh28387 check: 6662 from: 1 to: 13
: ID ABH28387 standard; DNA; 13 BP.
: XX ABH28387;
: AC ABH28387;
: DT 22-FEB-2002 (first entry)
: DE Oligonucleotide SEQ ID NO 228364 for detecting SNP TSC0055692.
: XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
: KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
: KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
: XX Homo sapiens.
: OS WO20017738-A2.
: PN 18-OCT-2001.
: PD 06-APR-2001; 2001WO-IB00713.
: PF 07-APR-2000; 2000DE-1019173.
: PR (EPIC-) EPIGENOMICS AG.
: XX (EPIC-) EPIGENOMICS AG.
: PA Olek A, Piepenhock C, Berlin K;
: PI WPI; 2001-657177/15.
: DR Set of oligonucleotides, useful for diagnosis and cell typing, is
: PT designed to detect single nucleotide polymorphisms and cytosine
: PT methylation status.
: XX Claim 1; SEQ ID 228364; 29pp + Sequence Listing; German.
: XX
: CC This invention describes novel oligonucleotide primers or peptide nucleic
: CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
: CC and cytosine methylation status in chemically pretreated genomic DNA. The
: CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
: CC range of diseases including immune system, gastrointestinal, respiratory,
: CC central nervous system, cardiovascular and metabolic disorders. The
: CC oligomers are also used for detecting cell type differentiation.
: CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
: CC ABH00010-ABH82073 represent the oligomers described in the invention.
: CC NOTE: The sequence data for this patent did not form part of the printed
: CC specification, but was obtained in electronic format from WIPO at
: CC ftp.wipo.int/pub/published_pct_sequences.
: XX
: SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
: ABH28387 Length: 13 September 11, 2003 14:26 Type: N Check: 6662 ..
: abh28387
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2739 CTCATTAATTT 2750
11 |||||||
Db 2 CTTAAATTAATTT 13
RESULT 300
abh31186/c
: TOIG of: abh31186 check: 6849 from: 1 to: 13
: ID ABH31186 standard; DNA; 13 BP.

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XX AC ABH31186;
XX DT 22-FEB-2002 (first entry)
XX DE oligonucleotide SEQ ID NO 231163 for detecting SNP TSC0056373.
XX SNF single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic;
XX Homo sapiens.
XX OS
XX PN WO200171384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-1B00713.
XX PR 07-APR-2000 2000DE-1019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-65717/75.
XX PT Set of oligonucleotides useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status -
XX PS Claim 1; SEQ ID 231163; 29pp + Sequence Listing; German.
XX CC This invention describes novel oligonucleotide primers or peptide nucleic
XX CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX CC and cytosine methylation status in chemically pretreated genomic DNA. The
XX CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX CC range of diseases including immune system, gastrointestinal, respiratory
XX CC central nervous system, cardiovascular and metabolic disorders. The
XX CC oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC ABIO0010-ABI82073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pat_sequences.
XX CC
XX SQ Sequence 13 BP; 6 A; 0 C; 2 G; 5 T; 0 other;
XX ABH31186 Length: 13 September 17 2003 14:26 Type: N Check: 6849 ..
XX abh31186
XX Query Match 52.0%; Score 10.4; DB 1; Length 13;
XX Best Local Similarity 91.7%; Pred. No. 1.2e+02;
XX Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX QY 2742 AATTAATCTT 2753
XX Db 12 AATTAATCTT 1
XX
XX RESULT 301
XX abh31187
XX TOIG of: abh31187 check: 6882 from: 1 to: 13
XX ID ABH31187 standard; DNA; 13 BP.
XX AC ABH31187;
XX DT 22-FEB-2002 (first entry)
XX DE Oligonucleotide SEQ ID NO 231164 for detecting SNP TSC0056373.
XX SNF single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

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; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 231164; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AAC00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 2 C; 0 G; 6 T; 0 other;
;
; ABH31187 Length: 13 September 17, 2003 14:26 Type: N Check: 6882 ..
; abh31187
;
; Query Match 52.0%; Score 10.4; DR 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2742 AATAAATTCCTT 2753
; DB 2 AATAACATTCCTT 13
;
; RESULT 302
; abh31188/C
; TOIG of: abh31188 check: 6807 from: 1 to: 13
;
; ID ABH31188 standard; DNA; 13 BP.
; XX
; AC ABH31188;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 231165 for detecting SNP TSC0056373.
; XX
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; PD

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; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; PS Claim 1; SEQ ID 231165; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AAC00010-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 1 A; 0 C; 1 G; 5 T; 0 other;
;
; ABH31188 Length: 13 September 17, 2003 14:26 Type: N Check: 6807 ..
; abh31188
;
; Query Match 58.0%; Score 10.4; DR 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2742 AATAAATTCCTT 2753
; DB 12 AATAATATTCCTT 1
;
; RESULT 303
; abh31189
; TOIG of: abh31189 check: 7001 from: 1 to: 13
;
; ID ABH31189 standard; DNA; 13 BP.
; XX
; AC ABH31189;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 231166 for detecting SNP TSC0056373.
; XX
; SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; PD
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI

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; XX WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX Claim 1: SEQ ID 231166; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other;
; ABH31189 Length: 13 September 17, 2003 14:26 Type: N Check: 7001 ..
; abh31189
Query Match 58.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATAAAATTCCT 2753
Db 2 AATAAAATTCCT 13
RESULT 304
abh32758/c
TOIG of: abh32758 check: 7084 from: 1 to: 13
; ID ABH32758 standard; DNA; 13 BP.
; XX
; AC ABH32758;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 232735 for detecting SNP TSC0009565.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1: SEQ ID 232735; 29pp + Sequence Listing; German.
```

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; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 4 A; 0 C; 3 G; 6 T; 0 other;
; ABH32758 Length: 13 September 17, 2003 14:26 Type: N Check: 7084 ..
; abh32758
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2742 AATAAAATTCCT 2753
Db 13 AATAAAATTCCT 2
RESULT 305
abh32759
TOIG of: abh32759 check: 6591 from: 1 to: 13
; ID ABH32759 standard; DNA; 13 BP.
; XX
; AC ABH32759;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 232736 for detecting SNP TSC0009565.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1: SEQ ID 232736; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
```

```
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 6 A; 3 C; 0 G; 4 T; 0 other;
ABH32759 Length: 13 September 17, 2003 14:26 Type: N Check: 6591
abH32759

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATTAATAATTCCT 2753
1 AATTAATAATTCCT 12

RESULT 306
abH34308/c
TOIG of: abH34308 Check: 6979 from: 1 to: 13
ID ABH34308 standard; DNA; 13 BP.
XX
AC ABH34308;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 234285 for detecting SNP TSC0057173.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIDENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 234285; 29pp + Sequence Listing; German.
XX
This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 6 A; 0 C; 0 G; 7 T; 0 other;
```

```
ABH34308 Length: 13 September 17, 2003 14:26 Type: N Check: 6979
abH34308

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATTAATAATTCCT 2753
12 AATTAATAATTCCT 1

RESULT 307
abH34309
TOIG of: abH34309 Check: 6846 from: 1 to: 13
ID ABH34309 standard; DNA; 13 BP.
XX
AC ABH34309;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 234286 for detecting SNP TSC0057173.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIDENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 234286; 29pp + Sequence Listing; German.
XX
This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other;
ABH34309 Length: 13 September 17, 2003 14:26 Type: N Check: 6846
abH34309

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2742 AATTAATAATTCCT 2753
```


Db 2 AATAAAATATT 13

RESULT 308
abhh39196/c
TOIG of: abhh39196 check: 6964 from: 1 to: 13

ID ABH39196 standard; DNA: 13 BP.

AC ABH39196;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 239173 for detecting SNP TSC0058317.

SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;

peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;

central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-1B00713.

07-APR-2000; 2000DE-1019173.

(EPIG-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI: 2001-65717/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is

designed to detect single nucleotide polymorphisms and cytosine

methylation status -

Claim 1; SEQ ID 239173; 29pp + Sequence Listing: German.

This invention describes novel oligonucleotide primers or peptide nucleic

acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

and cytosine methylation status in chemically pretreated genomic DNA. The

oligonucleotides are used for diagnosis and/or prognosis of cancer and a

range of diseases including immune system, gastrointestinal, respiratory,

central nervous system, cardiovascular and metabolic disorders. The

oligonucleotides are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

ABIO00010-ABIO82073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed

specification, but was obtained in electronic format from WIPO at

ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;

ABH39196 Length: 13 September 17, 2003 14:26 Type: N Check: 6964 ..

Query Match 52.0%; Score 10.4; DB 1; Length 13;

Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2742 AATAAAATCTT 2753

12 AATAAAATCTT 1

RESULT 309
abhh39197
TOIG of: abhh39197 check: 6698 from: 1 to: 13

ID ABH39197 standard; DNA: 13 BP.

AC ABH39197;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 239174 for detecting SNP TSC0058317.

SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;

peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;

central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-1B00713.

07-APR-2000; 2000DE-1019173.

(EPIG-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI: 2001-65717/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is

designed to detect single nucleotide polymorphisms and cytosine

methylation status -

Claim 1; SEQ ID 239174; 29pp + Sequence Listing: German.

This invention describes novel oligonucleotide primers or peptide nucleic

acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

and cytosine methylation status in chemically pretreated genomic DNA. The

oligonucleotides are used for diagnosis and/or prognosis of cancer and a

range of diseases including immune system, gastrointestinal, respiratory,

central nervous system, cardiovascular and metabolic disorders. The

oligonucleotides are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and

ABIO00010-ABIO82073 represent the oligomers described in the invention.

NOTE: The sequence data for this patent did not form part of the printed

specification, but was obtained in electronic format from WIPO at

ftp.wipo.int/pub/published_pct_sequences.

Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;

ABH39197 Length: 13 September 17, 2003 14:26 Type: N Check: 6698 ..

Query Match 52.0%; Score 10.4; DB 1; Length 13;

Best Local Similarity 91.7%; Pred. No. 1.2e+02;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

2742 AATAAAATCTT 2753

12 AATAAAATCTT 13

RESULT 310
abhh40460/c
TOIG of: abhh40460 check: 6825 from: 1 to: 13

ID ABH40460 standard; DNA: 13 BP.

AC ABH40460;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 240437 for detecting SNP TSC0005863.

```

; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO20017384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 240437; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 7 A; 0 C; 1 G; 5 T; 0 other;
; ABH40460 Length: 13 September 17, 2003 14:26 Type: N Check: 6825 ..
; abh40460

Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy      2744 TAAATTCCTTT 2755
Db      13 TAAATTCCTATT 2

RESULT 311
abh40461
; TOIG of: abh40461 check: 7052 from: 1 to: 13
; ID ABH40461 standard; DNA; 13 BP.
; XX
; AC ABH40461;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 240438 for detecting SNP TSC0005863.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO20017384-A2.
; XX
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; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 240438; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 1 C; 0 G; 7 T; 0 other;
; ABH40461 Length: 13 September 17, 2003 14:26 Type: N Check: 7052 ..
; abh40461

Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Oy      2744 TAAATTCCTTT 2755
Db      1 TAAATTCCTATT 12

RESULT 312
abh45726/c
; TOIG of: abh45726 check: 7044 from: 1 to: 13
; ID ABH45726 standard; DNA; 13 BP.
; XX
; AC ABH45726;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide SEQ ID NO 245703 for detecting SNP TSC0060015.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO20017384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
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; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, 1s
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1: SEQ ID 245703; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
; ABH45726 Length: 13 September 17, 2003 14:26 Type: N Check: 7044
; abh45726
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2742 AATTAATTCCTT 2753
; Db 12 ACTAAATTCCTT 1
;
; RESULT 313
; abh45727
; TOIG of: abh45727 check: 6855 from: 1 to: 13
;
; ID ABH45727 standard; DNA; 13 BP.
; AC ABH45727;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 245704 for detecting SNP TSC0060015.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-1B00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, 1s
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX

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; PS Claim 1; SEQ ID 245704; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and
; CC AB100010-AB102073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; CC
; XX Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
; ABH4727 Length: 13 September 17, 2003 14:26 Type: N Check: 6855
; abh45747
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2742 AATTAATTCCTT 2753
; Db 2 ACTAAATTCCTT 13
;
; RESULT 314
; abh46948/c
; TOIG of: abh46948 check: 7169 from: 1 to: 13
;
; ID ABH46948 standard; DNA; 13 BP.
; AC ABH46948;
; XX
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 246925 for detecting SNP TSC0060356.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-1B00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, 1s
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS Claim 1; SEQ ID 246925; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The

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; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 6 A; 0 C; 0 G; 7 T; 0 other;
;
; ABH46948 Length: 13 September 17, 2003 14:26 Type: N Check: 7169 ..
; abh46948
;
; Query Match
; Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2742 AATATAATTCCTT 2753
; 12 AATATAATTCCTT 1
;
; RESULT 315
; abh46949
; TOIG of: abh46949 check: 7036 from: 1 to: 13
;
; ID ABH46949 standard; DNA; 13 BP.
; AC ABH46949;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 246926 for detecting SNP TSC0060356.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Plepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 246926; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 7 A; 0 C; 0 G; 6 T; 0 other;

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; ABH46949 Length: 13 September 17, 2003 14:26 Type: N Check: 7036 ..
; abh46949
;
; Query Match
; Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; OY 2742 AATATAATTCCTT 2753
; 2 AATATAATTCCTT 13
;
; RESULT 316
; abh47888/C
; TOIG of: abh47888 check: 6680 from: 1 to: 13
;
; ID ABH47888 standard; DNA; 13 BP.
; AC ABH47888;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 247865 for detecting SNP TSC0060578.
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Plepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 247865; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 8 A; 0 C; 1 G; 4 T; 0 other;
;
; ABH47888 Length: 13 September 17, 2003 14:26 Type: N Check: 6680 ..
; abh47888
;
; Query Match
; Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

OY 2743 ATAAATTCCTT 2754
|||||
DB 12 ATAAATTCCTT 1

RESULT 317
abH47889
TOIG of: abH47889 check: 7151 from: 1 to: 13

ID ABH47889 standard; DNA; 13 BP.
AC ABH47889;
XX 22-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 247866 for detecting SNP TSC0060578.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.
WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB00713.

07-APR-2000; 2000DE-1019173.

(EPIC-) EPIGENOMICS AG.

Olek A. Piepenbrock C, Berlin K;

WPI: 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status -

Claim 1; SEQ ID 247866; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989 and
CC ABF00010-ABF99989 represent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences.

CC Sequence 13 BP; 4 A; 1 C; 0 G; 8 T; 0 other;

ABH47889 Length: 13 September 17, 2003 14:26 Type: N Check: 7151 ..
abH47889

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0

OY 2743 ATAAATTCCTT 2754
|||||
DB 2 ATAAATTCCTT 13

RESULT 318
abH50694/c
TOIG of: abH50694 check: 6653 from: 1 to: 13

ID ABH50694 standard; DNA; 13 BP.
AC ABH50694;
XX 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 250671 for detecting SNP TSC0061206.

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.
WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-IB00713.

07-APR-2000; 2000DE-1019173.

(EPIC-) EPIGENOMICS AG.

Olek A. Piepenbrock C, Berlin K;

WPI: 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is
designed to detect single nucleotide polymorphisms and cytosine
methylation status -

Claim 1; SEQ ID 250671; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
and cytosine methylation status in chemically pretreated genomic DNA. The
oligonucleotides are used for diagnosis and/or prognosis of cancer and a
range of diseases including immune system, gastrointestinal, respiratory,
central nervous system, cardiovascular and metabolic disorders. The
oligonucleotides are also used for detecting cell type differentiation.

CC ABC00010-ABC99989, ABF00010-ABF99989 and
CC ABF00010-ABF99989 represent the oligomers described in the invention.
NOTE: The sequence data for this patent did not form part of the printed
specification, but was obtained in electronic format from WIPO at
ftp.wipo.int/pub/published_pct_sequences.

CC Sequence 13 BP; 7 A; 0 C; 2 G; 4 T; 0 other;

ABH50694 Length: 13 September 17, 2003 14:26 Type: N Check: 6653 ..
abH50694

OY 2746 AAATCTTCTT 2757
|||||
DB 12 AAATCTTCTT 1

Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0

OY 2746 AAATCTTCTT 2757
|||||
DB 12 AAATCTTCTT 1

RESULT 319
abH50695
TOIG of: abH50695 check: 6941 from: 1 to: 13
ID ABH50695 standard; DNA; 13 BP.
AC ABH50695;
XX 22-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 250672 for detecting SNP TSC0061206.

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; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 250672; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; SQ Sequence 13 BP; 4 A; 2 C; 0 G; 7 T; 0 other;
; ABH50695 Length: 13 September 17, 2003 14:26 Type: N Check: 6941 ..
; abh50695
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
; QY 2746 AATTCCTTCT 2757
; Db 2 AATTCCTTCT 13
;
; RESULT 320
; abh50714/c
; TOIG of: abh50714 check: 6957 from: 1 to: 13
; ID ABH50714 standard; DNA; 13 BP.
; AC ABH50714,
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 250691 for detecting SNP TSC0061212.
; OS SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.

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; XX 18-OCT-2001.
; PD 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; PS Claim 1; SEQ ID 250691; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; SQ Sequence 13 BP; 5 A; 0 C; 3 G; 5 T; 0 other;
; abh50714 Length: 13 September 17, 2003 14:26 Type: N Check: 6957 ..
; abh50714
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
; QY 2743 AATAATTCCTT 2754
; Db 12 AATAATTCCTT 1
;
; RESULT 321
; abh50715
; TOIG of: abh50715 check: 6950 from: 1 to: 13
; ID ABH50715 standard; DNA; 13 BP.
; AC ABH50715,
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 250692 for detecting SNP TSC0061212.
; OS SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.

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; XX      Olek A, Piepenbrock C, Berlin K;
; PI
; PS
; XX      WPI: 2001-657177/75.
; DR
; CC      Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC      designed to detect single nucleotide polymorphisms and cytosine
; CC      methylation status
; CC      Claim 1; SEQ ID 250692; 29pp + Sequence Listing; German.
; CC
; CC      This invention describes novel oligonucleotide primers or peptide nucleic
; CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC      and cytosine methylation status in chemically pretreated genomic DNA. The
; CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC      range of diseases including immune system, gastrointestinal, respiratory,
; CC      central nervous system, cardiovascular and metabolic disorders. The
; CC      oligomers are also used for detecting cell type differentiation.
; CC      ABC00010-ABC99989, ABF00010-ABF99989 and
; CC      AB100010-AB102073 represent the oligomers described in the invention.
; CC      NOTE: The sequence data for this patent did not form part of the printed
; CC      specification, but was obtained in electronic format from WIPO at
; CC      ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC      Sequence 13 BP; 5 A; 3 C; 0 G; 5 T; 0 other;
; CC
; CC      ABH50715 Length: 13 September 17, 2003 14:26 Type: N Check: 6950 ..
; CC      abh50715
; CC
; CC      Query Match          52.0%; Score 10.4; DB 1; Length 13;
; CC      Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; CC      Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
; CC
; CC      QY      2743 ATAAATTCCTT 2754
; CC      | ||||| |||||
; CC      Db      2 ACAAATTCCTT 13
; CC
; CC      RESULT 322
; CC      abh52062
; CC      TOIG of: abh52062 check: 7131 from: 1 to: 13
; CC
; CC      ID      ABH52062 standard; DNA; 13 BP.
; CC
; CC      AC      ABH52062;
; CC
; CC      DE      22-FEB-2002 (first entry)
; CC
; CC      DE      Oligonucleotide SEQ ID NO 252039 for detecting SNP TSC0061502.
; CC
; CC      SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; CC      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; CC      central nervous system; gastrointestinal; respiratory; immune; metabolic.
; CC
; CC      Homo sapiens.
; CC
; CC      WO200177384-A2.
; CC
; CC      PD      18-OCT-2001.
; CC
; CC      PE      06-APR-2001; 2001WO-IB00713.
; CC
; CC      PR      07-APR-2000; 2000DE-1019173.
; CC
; CC      PA      (EPig-) EPIGENOMICS AG.
; CC
; CC      PI      Olek A, Piepenbrock C, Berlin K;
; CC
; CC      WPI: 2001-657177/75.
; CC
; CC      Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC      designed to detect single nucleotide polymorphisms and cytosine
; CC      methylation status

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; XX      Claim 1; SEQ ID 252039; 29pp + Sequence Listing; German.
; PS
; XX
; CC      This invention describes novel oligonucleotide primers or peptide nucleic
; CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC      and cytosine methylation status in chemically pretreated genomic DNA. The
; CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC      range of diseases including immune system, gastrointestinal, respiratory,
; CC      central nervous system, cardiovascular and metabolic disorders. The
; CC      oligomers are also used for detecting cell type differentiation.
; CC      ABC00010-ABC99989, ABF00010-ABF99989 and
; CC      AB100010-AB102073 represent the oligomers described in the invention.
; CC      NOTE: The sequence data for this patent did not form part of the printed
; CC      specification, but was obtained in electronic format from WIPO at
; CC      ftp.wipo.int/pub/published_pcr_sequences.
; CC
; CC      Sequence 13 BP; 5 A; 0 C; 0 G; 8 T; 0 other;
; CC
; CC      ABH52062 Length: 13 September 17, 2003 14:26 Type: N Check: 7131 ..
; CC      abh52062
; CC
; CC      Query Match          52.0%; Score 10.4; DB 1; Length 13;
; CC      Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; CC      Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
; CC
; CC      QY      2744 TAAATTCCTT 2755
; CC      | ||||| |||||
; CC      Db      2 TAAATTCCTT 13
; CC
; CC      RESULT 323
; CC      abh52063/c
; CC      TOIG of: abh52063 check: 6732 from: 1 to: 13
; CC
; CC      ID      ABH52063 standard; DNA; 13 BP.
; CC
; CC      AC      ABH52063;
; CC
; CC      DE      22-FEB-2002 (first entry)
; CC
; CC      DE      Oligonucleotide SEQ ID NO 252040 for detecting SNP TSC0061502.
; CC
; CC      SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; CC      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; CC      central nervous system; gastrointestinal; respiratory; immune; metabolic.
; CC
; CC      Homo sapiens.
; CC
; CC      WO200177384-A2.
; CC
; CC      PD      18-OCT-2001.
; CC
; CC      PE      06-APR-2001; 2001WO-IB00713.
; CC
; CC      PR      07-APR-2000; 2000DE-1019173.
; CC
; CC      PA      (EPig-) EPIGENOMICS AG.
; CC
; CC      PI      Olek A, Piepenbrock C, Berlin K;
; CC
; CC      WPI: 2001-657177/75.
; CC
; CC      Set of oligonucleotides, useful for diagnosis and cell typing, is
; CC      designed to detect single nucleotide polymorphisms and cytosine
; CC      methylation status
; CC
; CC      Claim 1; SEQ ID 252040; 29pp + Sequence Listing; German.
; CC
; CC      This invention describes novel oligonucleotide primers or peptide nucleic
; CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC      and cytosine methylation status in chemically pretreated genomic DNA. The
; CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC      range of diseases including immune system, gastrointestinal, respiratory,

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CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
CC
CC SQ Sequence 13 BP; 8 A; 0 C; 0 G; 5 T; 0 other;
ABH52063 Length: 13 September 17, 2003 14:26 Type: N Check: 6732 ..
abH52063

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATTCCTTT 2755
12 TAAATTCCTTT 1

RESULT 324
abH59146
TOIG of: abH59146 check: 7209 from: 1 to: 13
ID ABH59146 standard; DNA; 13 BP.
AC ABH59146;
DF 22-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 259123 for detecting SNP TSC0062957.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX OS
XX WO200177384-A2.
XX PN
XX 18-OCT-2001.
XX PD
XX 06-APR-2001; 2001WO-IB00713.
XX PE
XX 07-APR-2000; 2000DE-1019173.
XX PR
XX (EPig-) EPIGENOMICS AG.
XX PA
XX Olek A, Piepenbrock C, Berlin K;
XX PI
XX WPI; 2001-657177/75.
XX DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 259123; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
```

```
CC SQ Sequence 13 BP; 4 A; 0 C; 1 G; 8 T; 0 other;
ABH59146 Length: 13 September 17, 2003 14:26 Type: N Check: 7209 ..
abH59146

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2744 TAAATTCCTTT 2755
12 TAAATTCCTTT 12

RESULT 325
abH59147/C
TOIG of: abH59147 check: 6715 from: 1 to: 13
ID ABH59147 standard; DNA; 13 BP.
AC ABH59147;
DF 22-FEB-2002 (first entry)
DE Oligonucleotide SEQ ID NO 259124 for detecting SNP TSC0062957.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX OS
XX WO200177384-A2.
XX PN
XX 18-OCT-2001.
XX PD
XX 06-APR-2001; 2001WO-IB00713.
XX PE
XX 07-APR-2000; 2000DE-1019173.
XX PR
XX (EPig-) EPIGENOMICS AG.
XX PA
XX Olek A, Piepenbrock C, Berlin K;
XX PI
XX WPI; 2001-657177/75.
XX DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID 259124; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX SQ Sequence 13 BP; 8 A; 1 C; 0 G; 4 T; 0 other;
ABH59147 Length: 13 September 17, 2003 14:26 Type: N Check: 6715 ..
abH59147

Query Match
Best Local Similarity 52.0%; Score 10.4; DB 1; Length 13;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```



```
QY      2744 TAAATCTTTT 2755
      ||||| |||
      13 TAAATTTTTT 2
Db
RESULT 326
abn62060/c
TOIG of: abn62060 check: 7124 from: 1 to: 13
; ID ABH62060 standard; DNA; 13 BP.
; XX
; AC ABH62060;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 262037 for detecting SNP TSC0063580.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 262037; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 5 A; 0 C; 2 G; 5 T; 1 other;
; ABH62060 Length: 13 September 17, 2003 14:26 Type: N Check: 7124 ..
abn62060
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
TOIG of: abn62061 check: 6810 from: 1 to: 13
; ID ABH62061 standard; DNA; 13 BP.
; XX
; AC ABH62061;
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide SEQ ID NO 262038 for detecting SNP TSC0063580.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 262038; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 13 BP; 5 A; 2 C; 0 G; 5 T; 1 other;
; ABH62061 Length: 13 September 17, 2003 14:26 Type: N Check: 6810 ..
abn62061
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      2745 AAAATCTTTTC 2756
      ||||| |||
      12 AAAATCTTATC 1
Db
RESULT 327
abn62061
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```

DE Oligonucleotide SEQ ID NO 266749 for detecting SNP TSC0064639.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD
; PD 18-OCT-2001.
; PF
; PF 06-APR-2001; 2001WO-IB00713.
; PR
; PR 07-APR-2000; 2000DE-1019173.
; PA
; PA (EPIC-) EPIGENOMICS AG.
; PI
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; XX WPI; 2001-657177/5.
; DR
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 266749; 29pp + Sequence Listing; German.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; XX and cytosine methylation status in chemically pretreated genomic DNA. The
; XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; XX range of diseases including immune system, gastrointestinal, respiratory,
; XX central nervous system, cardiovascular and metabolic disorders. The
; XX oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 13 BP; 5 A; 0 C; 2 G; 6 T; 0 other;
; ABH66772 Length: 13 September 17, 2003 14:26 Type: N Check: 6969 ..
; abh66772
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2743 ATAAATCTTT 2754
DB 13 ATAAATCTTT 2

```

RESULT 329
abh66773
TOIG of: abh66773 check: 6747 from: 1 to: 13

ID ABH66773 standard; DNA; 13 BP.
AC ABH66773;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 266750 for detecting SNP TSC0064639.
XX
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX

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; PN WO200177384-A2.
; XX
; XX 18-OCT-2001.
; PD
; PD 06-APR-2001; 2001WO-IB00713.
; PF
; PF 07-APR-2000; 2000DE-1019173.
; PA
; PA (EPIC-) EPIGENOMICS AG.
; PI
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; XX WPI; 2001-657177/5.
; DR
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 266750; 29pp + Sequence Listing; German.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; XX and cytosine methylation status in chemically pretreated genomic DNA. The
; XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; XX range of diseases including immune system, gastrointestinal, respiratory,
; XX central nervous system, cardiovascular and metabolic disorders. The
; XX oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; XX
; SQ Sequence 13 BP; 6 A; 2 C; 0 G; 5 T; 0 other;
; ABH66773 Length: 13 September 17, 2003 14:26 Type: N Check: 6747 ..
; abh66773
Query Match 52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 1.2e+02;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2743 ATAAATCTTT 2754
DB 1 ATAAATCTTT 12

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RESULT 330
abh67092/c
TOIG of: abh67092 check: 6778 from: 1 to: 13

ID ABH67092 standard; DNA; 13 BP.
AC ABH67092;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide SEQ ID NO 267069 for detecting SNP TSC006675.
XX
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
PD 18-OCT-2001.
PF 06-APR-2001; 2001WO-IB00713.
PR 07-APR-2000; 2000DE-1019173.
XX

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; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI, 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 267069; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABC00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 4 A; 0 C; 3 G; 6 T; 0 other;
; SO
; ABH67092 Length: 13 September 17, 2003 14:26 Type: N Check: 6778 ..
; abh67092
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2739 CTCATATAAATT 2750
; Db 12 CCCATATAAATT 1
;
; RESULT 331
; abh67093
; TOIG of: abh67093 check: 6560 from: 1 to: 13
;
; ID ABH67093 standard; DNA; 13 BP.
; AC
; AC ABH67093;
; XX
; DT 22-FEB-2002 (first entry)
; DE
; DE Oligonucleotide SEQ ID NO 267070 for detecting SNP TSC0006675.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; OS Homo sapiens.
; PN
; PN WO200177384-A2.
; PD
; PD 18-OCT-2001.
; PF
; PF 06-APR-2001; 2001WO-IB00713.
; PR
; PR 07-APR-2000; 2000DE-1019173.
; PA
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI, 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine

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; PT methylation status -
; XX
; PS Claim 1; SEQ ID 267070; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABC00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 13 BP; 6 A; 3 C; 0 G; 4 T; 0 other;
; SO
; ABH67093 Length: 13 September 17, 2003 14:26 Type: N Check: 6560 ..
; abh67093
;
; Query Match 52.0%; Score 10.4; DB 1; Length 13;
; Best Local Similarity 91.7%; Pred. No. 1.2e+02;
; Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
;
; QY 2739 CTCATATAAATT 2750
; Db 2 CCCATATAAATT 13
;
; RESULT 332
; aaf35421
; TOIG of: aaf35421 check: 4311 from: 1 to: 10
;
; ID AAF35421 standard; DNA; 10 BP.
; AC
; AC AAF35421;
; XX
; DT 23-MAR-2001 (first entry)
; DE
; DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:2160.
; XX
; XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
; XX nor previously assigned open reading frame; nonannotated ORF; SAGE;
; XX serial analysis of gene expression; antifungal; tag; identification;
; XX linker; PCR primer; ds.
; OS
; OS Saccharomyces cerevisiae.
; PN
; PN WO200077214-A2.
; PD
; PD 21-DEC-2000.
; PF
; PF 14-JUN-2000; 2000WO-US16223.
; PR
; PR 16-JUN-1999; 99US-0335033.
; PA
; PA (UNJO ) UNIV JOHNS HOPKINS
; PI Velulescu V, Vogelstein B, Kinzler K;
; XX
; DR WPI, 2001-061874/07.
; PT Yeast gene coding sequences comprising NORF genes with serial analysis
; PT of gene expression (SAGE) tags, useful for studying, monitoring and
; PT affecting phases of the cell cycle -
; XX
; PS Example; Page 77; 419pp; English.
; CC The present invention describes an isolated DNA molecule comprising a
; CC coding sequence of a yeast gene selected from a group of 745 NORF (not
; CC previously assigned open reading frame; or nonannotated ORF) genes

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; CC comprising a SAGE (serial analysis of gene expression) tag. Also
; CC described are: (1) a method (M1) of using NORF genes to affect the cell
; CC cycle comprising administering a NORF gene whose expression varies by at
; CC least 10% between any two phases of the cell cycle selected from log
; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
; CC antifungal drugs comprising: (a) contacting a test substance with a
; CC yeast cell; and (b) monitoring expression of a NORF gene whose
; CC expression varies as in M1, where a test substance which modifies the
; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a
; CC candidate drug and monitoring expression in the yeast cell of at least 1
; CC NORF gene whose expression is affected by the class of drugs. The NORF
; CC genes may be used to study, monitor and affect phases of the cell cycle,
; CC the differentially expressed genes may be used as markers of phases of
; CC the cell cycle. The methods may be used to identify candidate drugs which
; CC affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF44064 represent SAGE tags used in the exemplification of
; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
; CC primers used in the SAGE method, in the exemplification of the present
; CC invention.
; XX
; SQ Sequence 10 BP; 4 A; 1 C; 0 G; 5 T; 0 other;
; AAF35421 Length: 10 September 17, 2003 14:26 Type: N Check: 4311 ..
; aaf35421
;
; Query Match 50.0%; Score 10; DB 1; Length 10;
; Best Local Similarity 100.0%; Pred. No. 1.2e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; OY 2745 AAAATTCCTT 2754
; |||||
; Db 1 AAAATTCCTT 10
;
; RESULT 333
; aaf35733/c
; TOIG Of: aaf35733 check: 4245 from: 1 to: 10
;
; ID AAF35733 standard; DNA: 10 BP.
; XX
; AC AAF35733:
; XX
; DT 23-MAR-2001 (first entry)
; XX
; DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:2472.
; XX
; KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
; KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
; KW serial analysis of gene expression; antifungal; tag; identification;
; KW linker; PCR primer; ds.
; XX
; OS Saccharomyces cerevisiae.
; XX
; PN MO200077214-A2.
; XX
; PD 21-DEC-2000.
; XX
; PF 14-JUN-2000; 2000MO-US16223.
; XX
; PR 16-JUN-1999; 99US-0335032.
; XX
; PA (UYJO ) UNTV JOHNS HOPKINS.
; XX
; PI Velculescu V, Vogelstein B, Kinzler K;
; XX
; DR MPI; 2001-061874/07.
; XX

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; PF Yeast gene coding sequences comprising NORF genes with serial analysis
; PT of gene expression (SAGE) tags, useful for studying, monitoring and
; PS affecting phases of the cell cycle -
; XX
; XX Example; Page 88; 419pp; English.
; CC The present invention describes an isolated DNA molecule comprising a
; CC coding sequence of a yeast gene selected from a group of 745 NORF (not
; CC previously assigned open reading frame; or nonannotated ORF) genes
; CC comprising a SAGE (serial analysis of gene expression) tag. Also
; CC described are: (1) a method (M1) of using NORF genes to affect the cell
; CC cycle comprising administering a NORF gene whose expression varies by at
; CC least 10% between any two phases of the cell cycle selected from log
; CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
; CC antifungal drugs comprising: (a) contacting a test substance with a
; CC yeast cell; and (b) monitoring expression of a NORF gene whose
; CC expression varies as in M1, where a test substance which modifies the
; CC expression of the yeast gene is a candidate antifungal drug; (3) a method
; CC (M3) for identifying human genes which are involved in cell cycle
; CC progression comprising contacting human DNA with a probe which comprises
; CC at least 10 contiguous nucleotides of a NORF gene whose expression varies
; CC as in M1; and (4) a method (M4) for identifying a candidate drug as a
; CC member of a class of drugs having a characteristic effect on gene
; CC expression in a yeast cell comprising contacting a yeast cell with a
; CC candidate drug and monitoring expression in the yeast cell of at least 1
; CC NORF gene whose expression is affected by the class of drugs. The NORF
; CC genes may be used to study, monitor and affect phases of the cell cycle,
; CC the differentially expressed genes may be used as markers of phases of
; CC the cell cycle. The methods may be used to identify candidate drugs which
; CC affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF44064 represent SAGE tags used in the exemplification of
; CC the present invention. AAF33262 to AAF33267 represent linkers and PCR
; CC primers used in the SAGE method, in the exemplification of the present
; CC invention.
; XX
; SQ Sequence 10 BP; 5 A; 0 C; 1 G; 4 T; 0 other;
; AAF35733 Length: 10 September 17, 2003 14:26 Type: N Check: 4245 ..
; aaf35733
;
; Query Match 50.0%; Score 10; DB 1; Length 10;
; Best Local Similarity 100.0%; Pred. No. 1.2e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; OY 2745 AAAATTCCTT 2754
; |||||
; Db 10 AAAATTCCTT 1
;
; RESULT 334
; aaf36888/c
; TOIG Of: aaf36888 check: 4118 from: 1 to: 10
;
; ID AAF36888 standard; DNA: 10 BP.
; XX
; AC AAF36888:
; XX
; DT 23-MAR-2001 (first entry)
; XX
; DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:3627.
; XX
; KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
; KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
; KW serial analysis of gene expression; antifungal; tag; identification;
; KW linker; PCR primer; ds.
; XX
; OS Saccharomyces cerevisiae.
; XX
; PN MO200077214-A2.
; XX
; PD 21-DEC-2000.
; XX
; PF 14-JUN-2000; 2000MO-US16223.
; XX

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; XX 16-JUN-1999; 99US-0335032.
; PR
; XX
; PA (UYJO ) UNIV JOHNS HOPKINS.
; XX
; PI Velculescu V, Vogelstein B, Kinzler K;
; DR WPI; 2001-061874/07.
; XX
; PT Yeast gene coding sequences comprising NORF genes with serial analysis
; of gene expression (SAGE) tags, useful for studying, monitoring and
; affecting phases of the cell cycle -
; PS
; XX Example; Page 129; 419pp; English.
; CC The present invention describes an isolated DNA molecule comprising a
; coding sequence of a yeast gene selected from a group of 745 NORF (not
; previously assigned open reading frame; or nonannotated ORF) genes
; comprising a SAGE (serial analysis of gene expression) tag. Also
; described are: (1) a method (M1) of using NORF genes to affect the cell
; cycle comprising administering a NORF gene whose expression varies by at
; least 10% between any two phases of the cell cycle selected from log
; phase, S phase and G2/M; (2) a method (M2) for screening candidate
; antifungal drugs comprising: (a) contacting a test substance with a
; yeast cell; and (b) monitoring expression of a NORF gene whose
; expression varies as in M1, where a test substance which modifies the
; expression of the yeast gene is a candidate antifungal drug; (3) a method
; (M3) for identifying human genes which are involved in cell cycle
; progression comprising contacting human DNA with a probe which comprises
; at least 10 contiguous nucleotides of a NORF gene whose expression varies
; as in M1; and (4) a method (M4) for identifying a candidate drug as a
; member of a class of drugs having a characteristic effect on gene
; expression in a yeast cell comprising contacting a yeast cell with a
; candidate drug and monitoring expression in the yeast cell of at least 1
; NORF gene whose expression is affected by the class of drugs. The NORF
; genes may be used to study, monitor and affect phases of the cell cycle,
; the differentially expressed genes may be used as markers of phases of
; the cell cycle. The methods may be used to identify candidate drugs which
; affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF44064 represent SAGE tags used in the exemplification of
; the present invention. AAF33262 to AAF33267 represent linkers and PCR
; primers used in the SAGE method, in the exemplification of the present
; invention.
; CC
; XX
; SQ Sequence 10 BP; 6 A; 0 C; 1 G; 3 T; 0 other;
; AAF36888 Length: 10 September 17, 2003 14:26 Type: N Check: 4118 ..
; aaf36888
; Query Match 50.0%; Score 10; DB 1; Length 10;
; Best Local Similarity 100.0%; Pred. No. 1.2e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
; QY 2746 AATTCCTTT 2755
; Db 10 AATTCCTTT 1
;
; RESULT 335
; aaf40514
; TOIG of: aaf40514 check: 4014 from: 1 to: 10
; ID AAF40514 standard; DNA: 10 BP.
; AC
; XX AAF40514;
; XX
; DT 23-MAR-2001 (first entry)
; XX
; DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:7253.
; XX
; KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
; nor previously assigned open reading frame; nonannotated ORF; SAGE;
; serial analysis of gene expression; antifungal; tag; identification;

```

```

; KW linker; PCR primer; ds.
; XX
; OS Saccharomyces cerevisiae.
; XX
; PN WO200077214-A2.
; XX
; PD 21-DEC-2000.
; XX
; PF 14-JUN-2000; 2000WO-US16223.
; XX
; PR 16-JUN-1999; 99US-0335032.
; XX
; PA (UYJO ) UNIV JOHNS HOPKINS.
; XX
; PI Velculescu V, Vogelstein B, Kinzler K;
; DR WPI; 2001-061874/07.
; XX
; PT Yeast gene coding sequences comprising NORF genes with serial analysis
; of gene expression (SAGE) tags, useful for studying, monitoring and
; affecting phases of the cell cycle -
; PS
; XX Example; Page 259; 419pp; English.
; CC The present invention describes an isolated DNA molecule comprising a
; coding sequence of a yeast gene selected from a group of 745 NORF (not
; previously assigned open reading frame; or nonannotated ORF) genes
; comprising a SAGE (serial analysis of gene expression) tag. Also
; described are: (1) a method (M1) of using NORF genes to affect the cell
; cycle comprising administering a NORF gene whose expression varies by at
; least 10% between any two phases of the cell cycle selected from log
; phase, S phase and G2/M; (2) a method (M2) for screening candidate
; antifungal drugs comprising: (a) contacting a test substance with a
; yeast cell; and (b) monitoring expression of a NORF gene whose
; expression varies as in M1, where a test substance which modifies the
; expression of the yeast gene is a candidate antifungal drug; (3) a method
; (M3) for identifying human genes which are involved in cell cycle
; progression comprising contacting human DNA with a probe which comprises
; at least 10 contiguous nucleotides of a NORF gene whose expression varies
; as in M1; and (4) a method (M4) for identifying a candidate drug as a
; member of a class of drugs having a characteristic effect on gene
; expression in a yeast cell comprising contacting a yeast cell with a
; candidate drug and monitoring expression in the yeast cell of at least 1
; NORF gene whose expression is affected by the class of drugs. The NORF
; genes may be used to study, monitor and affect phases of the cell cycle,
; the differentially expressed genes may be used as markers of phases of
; the cell cycle. The methods may be used to identify candidate drugs which
; affect the cell cycle and for identification of antifungal drugs.
; CC AAF33268 to AAF44064 represent SAGE tags used in the exemplification of
; the present invention. AAF33262 to AAF33267 represent linkers and PCR
; primers used in the SAGE method, in the exemplification of the present
; invention.
; CC
; XX
; SQ Sequence 10 BP; 6 A; 1 C; 0 G; 3 T; 0 other;
; AAF40514 Length: 10 September 17, 2003 14:26 Type: N Check: 4014 ..
; aaf40514
; Query Match 50.0%; Score 10; DB 1; Length 10;
; Best Local Similarity 100.0%; Pred. No. 1.2e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
; QY 2741 CAATTAATTT 2750
; Db 1 CAATTAATTT 10
;
; RESULT 336
; aaz07935
; TOIG of: aaz07935 check: 4014 from: 1 to: 10
; ID AAZ07935 standard; DNA: 10 BP.
; XX

```

```

; AC AAZ07935;
; XX
; DT 20-DEC-1999 (first entry)
; XX
; DE EST 3 specific SAGE tag sequence.
; XX
; KW Neoplasia; lung cell; proto-oncogene; b-myb; p67; p69.5; 8-oxo-dGTPase;
; KW diagnosis; lung cancer; SAGE; Serial Analysis of Gene Expression;
; KW NSCLC; ss.
; XX
; OS Synthetic.
; XX
; PN MO9949774-A2.
; PD 07-OCT-1999.
; XX
; PF 30-MAR-1999; 99MO-US06947.
; XX
; PR 31-MAR-1998; 98US-0080044.
; XX
; PA (GENZ ) GENZYME CORP.
; PA (UYJO ) UNIV JOHNS HOPKINS.
; XX
; PI Jen J, Beaudry GA, Madden SL, Bertelsen AH;
; XX
; DR WPI; 1999-580562/49.
; XX
; PT Diagnosing lung cancer by detecting over-expression of specific
; PT proto-oncogenes, and screening for therapeutic agents that inhibit
; PT over-expression -
; XX
; PS Examples: Page 34; 51pp; English.
; XX
; CC The invention relates to the diagnosis of neoplasia of lung cells that
; CC comprises detecting over-expression of one of the proto-oncogenes b-myb,
; CC p67, p69.5 and 8-oxo-dGTPase. The method is used for diagnosis, and
; CC monitoring, of lung cancer, or prediagnosis to this disease.
; CC particularly non-small cell lung cancer (NSCLC). Therapeutic agents that
; CC inhibit over-expression of the oncogenes are used to treat lung cancer,
; CC also to prevent progression of pre-neoplastic or non-malignant states.
; CC The specified proto-oncogenes have been found to be expressed in many
; CC primary lung cancers. The method is useful for the early diagnosis and
; CC monitoring of lung cancer. Sequences AAZ07926-938 represents SAGE tag
; CC sequences used in SAGE (Serial Analysis of Gene Expression) analysis of
; CC genes overexpressed NSCLC.
; XX
; SQ Sequence 10 BP; 6 A; 1 C; 0 G; 3 T; 0 other;
;
; AAZ07935 Length: 10 September 17, 2003 14:26 Type: N Check: 4014 ..
; aaz07935

Query Match 50.0%; Score 10; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CAATRAAATT 2750
Db 1 CAATRAAATT 10

RESULT 337
aaz28345
; TOIG of: aaz28345 check: 4014 from: 1 to: 10
; ID AAZ28345 standard; cDNA; 10 BP.
; AC AAZ28345;
; XX
; DT 20-DEC-1999 (first entry)
; XX
; DE Lung cancer indicator polynucleotide #25.
; XX
; KW Lung cancer; tumour; primary squamous cell; gene expression pattern; ss;
; KM

```

```

; KW antibody; detect; diagnosis; transgenic animal; expressed sequence tag.
; XX
; OS Homo sapiens.
; XX
; PN MO9950278-A1.
; PD 07-OCT-1999.
; XX
; PF 30-MAR-1999; 99MO-US06938.
; XX
; PR 31-MAR-1998; 98US-0080037.
; XX
; PA (GENZ ) GENZYME CORP.
; PA Beaudry GA, Madden SL, Bertelsen AH;
; XX
; DR WPI; 1999-591271/50.
; XX
; PT Polynucleotides which are differentially expressed in lung cancer, used
; PT for diagnosis and screening for therapeutic agents -
; XX
; PS Claim 1; Page 51; 69pp; English.
; XX
; CC Sequences AAZ28321-228360 are polynucleotides isolated from primary
; CC squamous cell lung cancers of two patients. These sequences represent a
; CC profile of gene expression patterns in lung cancer. Sequences
; CC AAZ28321-228360 do not correspond to previously characterised genes. Sequences
; CC AAZ28341-228360 do not correspond to known genes, although some do
; CC correspond to reported expressed sequence tags (ESTs). This sequence
; CC does not correspond to a known EST. The presence of these polynucleotide
; CC sequences in lung cells is indicative of lung cancer. The sequences can
; CC be used to generate antibodies for the detection of tumour cells.
; CC Detection of the overexpression of the polynucleotides and their gene
; CC products can be used in the diagnosis of lung cancer or the
; CC susceptibility to the disease. The sequences can also be used to screen
; CC for agents potentially useful for treating lung cancer and to generate
; CC transgenic animals (for studying gene function and for drug screening).
; XX
; SQ Sequence 10 BP; 6 A; 1 C; 0 G; 3 T; 0 other;
;
; AAZ28345 Length: 10 September 17, 2003 14:26 Type: N Check: 4014 ..
; aaz28345

Query Match 50.0%; Score 10; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CAATRAAATT 2750
Db 1 CAATRAAATT 10

RESULT 338
abv62284
; TOIG of: abv62284 check: 4938 from: 1 to: 11
; ID ABV62284 standard; cDNA; 11 BP.
; AC ABV62284;
; XX
; DT 21-OCT-2002 (first entry)
; XX
; DE Human skin EST 70.
; XX
; KW Human; skin; dermatological; vulnery; antiporiatic; antiseborrhagic;
; KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
; KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX
; OS Homo sapiens.
; XX
; PN WO200253774-A2.
; XX
; PD 11-JUL-2002.
; KM

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; XX 20-DEC-2001; 2001WO-EP15179.
; PF
; XX 03-JAN-2001; 2001DE-1000127.
; PR
; XX (HENK ) HENKEL KGAA.
; PA
; XX Petersohn D, Conradt M, Hofmann K;
; PI
; XX WPI; 2002-590638/63.
; DR
; XX
; PT In vitro identification of skin-expressed genes, useful for determining
; PT homeostasis and identifying cosmetic or pharmaceutical agents against
; PT e.g. skin cancer
; PS
; XX Disclosure; Page 28; 1345pp; German.
; XX
; CC The invention relates to in vitro identification (M) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE)
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC Ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; CC
; XX
; SQ Sequence 11 BP; 6 A; 1 C; 0 G; 4 T; 0 other:
;
; ABV62284 Length: 11 September 17, 2003 14:26 Type: N Check: 4938 ..
; abv62284

Query Match 50.0%; Score 10; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAAATAAAATT 2750
Db 1 CAAATAAAATT 10

RESULT 339
abv69705
; TOIG of: abv69705 check: 4938 from: 1 to: 11
;
; ID ABV69705 standard; CDNA; 11 BP.
; AC
; AC ABV69705;
; XX
; DT 21-OCT-2002 (first entry)
; XX
; DE Human skin EST 7491.
; DE
; KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
; KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
; KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
; XX
; OS Homo sapiens.
; OS
; PN WO200253774-A2.
; PN
; PD 11-JUL-2002.
; PD
; XX 20-DEC-2001; 2001WO-EP15179.
; PF
; XX 03-JAN-2001; 2001DE-1000127.
; PR
; XX (HENK ) HENKEL KGAA.
; PA
; XX Petersohn D, Conradt M, Hofmann K;
; PI

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```

; XX WPI; 2002-590638/63.
; DR
; XX
; PT In vitro identification of skin-expressed genes, useful for determining
; PT homeostasis and identifying cosmetic or pharmaceutical agents against
; PT e.g. skin cancer
; PS
; XX Claim 24; Page 236; 1345pp; German.
; XX
; CC The invention relates to in vitro identification (M) of genes expressed
; CC in the skin of humans or animals by subjecting a mixture of genetically
; CC encoded factors from skin, to serial analysis of gene expression (SAGE)
; CC so as to identify skin-expressed genes and quantify their expression.
; CC (M) is useful for identifying genes involved in skin homeostasis; to
; CC determine skin homeostasis and to test agent (A) that maintains or
; CC promotes skin homeostasis or that can be used for treating skin
; CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
; CC Ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
; CC skin. The present sequence is that of a human expressed sequence tag
; CC (EST) of the invention.
; CC
; XX
; SQ Sequence 11 BP; 6 A; 1 C; 0 G; 4 T; 0 other:
;
; ABV69705 Length: 11 September 17, 2003 14:26 Type: N Check: 4938 ..
; abv69705

Query Match 50.0%; Score 10; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAAATAAAATT 2750
Db 1 CAAATAAAATT 10

RESULT 340
abh68437/c
; TOIG of: abh68437 check: 6021 from: 1 to: 12
;
; ID ABH68437 standard; DNA; 12 BP.
; AC
; AC ABH68437;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 268414 for detecting SNP TSC0001123.
; DE
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; OS
; PN WO200177384-A2.
; PN
; PD 18-OCT-2001.
; PD
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPIC-) EPIGENOMICS AG.
; PA
; PA Olek A, Pienbrock C, Berlin K;
; PI
; XX WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; PS Claim 1; SEQ ID 268414; 29pp + Sequence Listing; German.

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```

; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
; ABH68437 Length: 12 September 17, 2003 14:26 Type: N Check: 6021 ..
; abh68437
;
; Query Match 50.0%; Score 10; DB 1; Length 12;
; Best Local Similarity 100.0%; Pred. No. 1.4e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2745 AAAATTCCTT 2754
; Db 10 AAAATTCCTT 1
;
; RESULT 341
; abh68832
;
; TOIG of: abh68832 Check: 6034 from: 1 to: 12
;
; ID ABH68832 standard; DNA: 12 BP.
; XX
; AC ABH68832;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 268809 for detecting SNP TSC0001420.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR MPI; 2001-65717/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 268809; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 2 C; 0 G; 5 T; 0 other;
; abh68437

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; CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
; ABH6832 Length: 12 September 17, 2003 14:26 Type: N Check: 6034 ..
; abh6832
;
; Query Match 50.0%; Score 10; DB 1; Length 12;
; Best Local Similarity 100.0%; Pred. No. 1.4e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2745 AAAATTCCTT 2754
; Db 1 AAAATTCCTT 10
;
; RESULT 342
; abh69536
;
; TOIG of: abh69536 Check: 5314 from: 1 to: 12
;
; ID ABH69536 standard; DNA: 12 BP.
; XX
; AC ABH69536;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 269513 for detecting SNP TSC0001787.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR MPI; 2001-65717/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 269513; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABF99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 8 A; 2 C; 0 G; 2 T; 0 other;
; abh69536

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; ABH69536 Length: 12 September 17, 2003 14:26 Type: N Check: 5314 ..
 abh69536

Query Match 50.0%; Score 10; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2739 CTCATATATAA 2748
 |||||
 Db 3 CTCATATATAA 12

RESULT 343
 abh70144/c
 ; TOIG of: abh70144 check: 6054 from: 1 to: 12

; ID ABH70144 standard; DNA; 12 BP.

; AC ABH70144;

; DT 22-FEB-2002 (first entry)

; DE Oligonucleotide primer SEQ ID NO 270121 for detecting SNP TSC0002007.

; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 central nervous system; gastrointestinal; respiratory; immune; metabolic.

; OS Homo sapiens.

; PN WO200177384-A2.

; PD 18-OCT-2001.

; PE 06-APR-2001; 2001WO-IB00713.

; PR 07-APR-2000; 2000DE-1019173.

; PA (EPIC-) EPIGENOMICS AG.

; PI Olek A, Piepenbrock C, Berlin K;

; XX WPI; 2001-657177/75.

; DR Set of oligonucleotides, useful for diagnosis and cell typing, is

; PT designed to detect single nucleotide polymorphisms and cytosine

; PT methylation status -

; PS Claim 1; SEQ ID 270121; 29pp + Sequence Listing; German.

; CC This invention describes novel oligonucleotide primers or peptide nucleic
 acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 and cytosine methylation status in chemically pretreated genomic DNA. The
 oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 range of diseases including immune system, gastrointestinal, respiratory,
 central nervous system, cardiovascular and metabolic disorders. The
 oligomers are also used for detecting cell type differentiation.

; CC ABC00010-ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and

; CC NOTE: The sequence data for this patent did not form part of the printed
 specification, but was obtained in electronic format from WIPO at
 ftp.wipo.int/pub/published_pct_sequences.

; CC Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;

; ABH70144 Length: 12 September 17, 2003 14:26 Type: N Check: 6054 ..
 abh70144

Query Match 50.0%; Score 10; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATATAAT 2750

Db 12 CAATATAAT 3
 |||||

RESULT 344
 abh70864
 ; TOIG of: abh70864 check: 5796 from: 1 to: 12

; ID ABH70864 standard; DNA; 12 BP.

; AC ABH70864;

; DT 22-FEB-2002 (first entry)

; DE Oligonucleotide primer SEQ ID NO 270841 for detecting SNP TSC0002296.

; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 central nervous system; gastrointestinal; respiratory; immune; metabolic.

; OS Homo sapiens.

; PN WO200177384-A2.

; PD 18-OCT-2001.

; PE 06-APR-2001; 2001WO-IB00713.

; PR 07-APR-2000; 2000DE-1019173.

; PA (EPIC-) EPIGENOMICS AG.

; PI Olek A, Piepenbrock C, Berlin K;

; XX WPI; 2001-657177/75.

; DR Set of oligonucleotides, useful for diagnosis and cell typing, is

; PT designed to detect single nucleotide polymorphisms and cytosine

; PT methylation status -

; PS Claim 1; SEQ ID 270841; 29pp + Sequence Listing; German.

; CC This invention describes novel oligonucleotide primers or peptide nucleic
 acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 and cytosine methylation status in chemically pretreated genomic DNA. The
 oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 range of diseases including immune system, gastrointestinal, respiratory,
 central nervous system, cardiovascular and metabolic disorders. The
 oligomers are also used for detecting cell type differentiation.

; CC ABC00010-ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and

; CC NOTE: The sequence data for this patent did not form part of the printed
 specification, but was obtained in electronic format from WIPO at
 ftp.wipo.int/pub/published_pct_sequences.

; CC Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;

; ABH70864 Length: 12 September 17, 2003 14:26 Type: N Check: 5796 ..
 abh70864

Query Match 50.0%; Score 10; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATATAAT 2750
 |||||
 Db 2 CAATATAAT 11

RESULT 345

abh72223
 ; TOIG of: abh72223 check: 5628 from: 1 to: 12

```

; ID ABH72223 standard; DNA; 12 BP.
; XX
; AC ABH72223;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 272202 for detecting SNP TSC0002737.
; XX
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 272202; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
; ABH72223 Length: 12 September 17, 2003 14:26 Type: N Check: 5628 ..
; abh72223
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2742 AATAAATTC 2751
Db 3 AATAAATTC 12
RESULT 346
abh74541/c
; TOIG Of: abh74541 check: 5972 from: 1 to: 12
; ID ABH74541 standard; DNA; 12 BP.
; XX
; AC ABH74541;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 274526 for detecting SNP TSC0003582.
; XX

```

```

; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 274526; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; SQ Sequence 12 BP; 3 A; 0 C; 1 G; 8 T; 0 other;
; ABH74541 Length: 12 September 17, 2003 14:26 Type: N Check: 5972 ..
; abh74541
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2740 TCAATTAAT 2749
Db 12 TCAATTAAT 3
RESULT 347
abh75754/c
; TOIG Of: abh75754 check: 5853 from: 1 to: 12
; ID ABH75754 standard; DNA; 12 BP.
; XX
; AC ABH75754;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 275747 for detecting SNP TSC0003985.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; PN WO200177384-A2.
; XX

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; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; DR
; XX
; PF Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS
; PS Claim 1; SEQ ID 275747; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 12 BP; 5 A; 0 C; 2 G; 5 T; 0 other;
;
; ABH75754 Length: 12 September 17, 2003 14:26 Type: N Check: 5853 ..
abh75754

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2744 TAAATTCCT 2753
DB 12 TAAATTCCT 3

RESULT 348
abh79804 check: 5378 from: 1 to: 12
; TOIG of: abh79804 standard; DNA; 12 BP.
; ID ABH79804 standard; DNA; 12 BP.
; XX
; AC ABH79804;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 279797 for detecting SNP TSC0007838.
; XX
; DE SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX

```

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; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PF Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS
; PS Claim 1; SEQ ID 279797; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX
; SQ Sequence 12 BP; 8 A; 1 C; 0 G; 3 T; 0 other;
;
; ABH79804 Length: 12 September 17, 2003 14:26 Type: N Check: 5378 ..
abh79804

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2740 TCAATAAAT 2749
DB 1 TCAATAAAT 10

RESULT 349
abh1738/c
; TOIG of: abh1738 check: 5824 from: 1 to: 12
; ID ABH81738 standard; DNA; 12 BP.
; XX
; AC ABH81738;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 281731 for detecting SNP TSC0010022.
; XX
; DE SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; XX
; PF Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; PS

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```

; PS Claim 1; SEQ ID 281731; 29pp + Sequence Listing; German.
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;
; ABH81738 Length: 12 September 17, 2003 14:26 Type: N Check: 5824 ..
; abh81738

Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATAAA 2748
DB 10 CTCATATAAA 1

RESULT 350
abh82009
; TOIG of: abh82009 check: 5494 from: 1 to: 12
; ID ABH82009 standard; DNA; 12 BP.
; XX
; AC ABH82009;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE oligonucleotide primer SEQ ID NO 282002 for detecting SNP TSC0010245.
; XX
; SN SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; Claim 1; SEQ ID 282002; 29pp + Sequence Listing; German.
; PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 2 A; 0 C; 3 G; 7 T; 0 other;

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; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; ABH82009 Length: 12 September 17, 2003 14:26 Type: N Check: 5494 ..
; abh82009

Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAATTC 2751
DB 1 AATAAATTC 10

RESULT 351
abh82564/C
; TOIG of: abh82564 check: 5911 from: 1 to: 12
; ID ABH82564 standard; DNA; 12 BP.
; XX
; AC ABH82564;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE oligonucleotide primer SEQ ID NO 282557 for detecting SNP TSC0010865.
; XX
; SN SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; Claim 1; SEQ ID 282557; 29pp + Sequence Listing; German.
; PS This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 2 A; 0 C; 3 G; 7 T; 0 other;

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```
; ABH82564 Length: 12 September 17, 2003 14:26 Type: N Check: 5911 ..
abH82564
Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2739 CTCGATGAAA 2748
      |||||
Db      12 CTCGATGAAA 3

RESULT 352
abH83730
; TOIG of: abH83730 check: 5903 from: 1 to: 12
; ID ABH83730 standard; DNA; 12 BP.
; AC ABH83730;
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 283723 for detecting SNP TSC0011474.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 283723; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;
; SO
; ABH83730 Length: 12 September 17, 2003 14:26 Type: N Check: 5903 ..
abH83730
Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      2745 AAAATCTTT 2754
      |||||
Db      2 AAAATCTTT 11

RESULT 353
abH84268/c
; TOIG of: abH84268 check: 5956 from: 1 to: 12
; ID ABH84268 standard; DNA; 12 BP.
; AC ABH84268;
; XX 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 284261 for detecting SNP TSC0011745.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 284261; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABT00010-ABT82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;
; SO
; ABH84268 Length: 12 September 17, 2003 14:26 Type: N Check: 5956 ..
abH84268
Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2740 TCAATTAAT 2749
      |||||
Db      10 TCAATTAAT 1

RESULT 354
abH84269/c
; TOIG of: abH84269 check: 5769 from: 1 to: 12
```

```

; ID ABH84269 standard; DNA; 12 BP.
; XX
; AC ABH84269;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 284262 for detecting SNP TSC0011745.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; XX Homo sapiens.
; XX
; PN WO200177384-A2.
; PD
; PD 18-OCT-2001.
; PF
; PF 06-APR-2001; 2001MO-IB00713.
; PR
; PR 07-APR-2000; 2000DE-1019173.
; PA
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/5.
; DR
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 284262; 29pp + Sequence listing; German.
; PS
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 3 A; 1 C; 2 G; 6 T; 0 other;
;
; ABH84269 Length: 12 September 17, 2003 14:26 Type: N Check: 5769 ..
; abh84269

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2740 TCAATTAAT 2749
Db 10 TCAATTAAT 1

RESULT 355
abh89678/c
; TOIG of: abh89678 check: 5942 from: 1 to: 12
;
; ID ABH89678 standard; DNA; 12 BP.
; XX
; AC ABH89678;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 289671 for detecting SNP TSC0014037.
; XX
; PN
```

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; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; XX Homo sapiens.
; XX
; PN WO200177384-A2.
; PD
; PD 18-OCT-2001.
; PF
; PF 06-APR-2001; 2001MO-IB00713.
; PR
; PR 07-APR-2000; 2000DE-1019173.
; PA
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/5.
; DR
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 289671; 29pp + Sequence listing; German.
; PS
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 0 C; 1 G; 5 T; 0 other;
;
; ABH89678 Length: 12 September 17, 2003 14:26 Type: N Check: 5942 ..
; abh89678

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2745 AAAATCTTT 2754
Db 12 AAAATCTTT 3

RESULT 356
abh92038/c
; TOIG of: abh92038 check: 6136 from: 1 to: 12
;
; ID ABH92038 standard; DNA; 12 BP.
; XX
; AC ABH92038;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 292031 for detecting SNP TSC0015057.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; XX Homo sapiens.
; XX
; PN WO200177384-A2.
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; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PF
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPIC-) EPIGENOMICS AG.
; PA
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PM methylation status -
; PT
; XX
; PS Claim 1; SEQ ID 292031; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABC100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;
;
; ABH92038 Length: 12 September 17, 2003 14:26 Type: N Check: 6136 ..
; abh92038
;
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 2742 AATTAATTC 2751
Db 10 AATTAATTC 1
;
RESULT 357
abh92050
; TOIG of: abh92050 check: 6056 from: 1 to: 12
;
; ID ABH92050 standard; DNA: 12 BP.
; XX
; AC ABH92050;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 292043 for detecting SNP TSC0015060.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
;

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; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PM methylation status -
; PT
; XX
; PS Claim 1; SEQ ID 292043; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABC100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcr_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 2 C; 0 G; 6 T; 0 other;
;
; ABH92050 Length: 12 September 17, 2003 14:26 Type: N Check: 6056 ..
; abh92050
;
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
QY 2745 AAAATCTTT 2754
Db 1 AAAATCTTT 10
;
RESULT 358
abh93032
; TOIG of: abh93032 check: 5456 from: 1 to: 12
;
; ID ABH93032 standard; DNA: 12 BP.
; XX
; AC ABH93032;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 293025 for detecting SNP TSC0015466.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI: 2001-657177/75.
; DR
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PM methylation status -
; PT

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; PS
; CC Claim 1; SEQ ID 293025; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
;
; ABH93032 Length: 12 September 17, 2003 14:26 Type: N Check: 5456 ..
; abh93032
;
; Query Match 50.0%; Score 10; DB 1; Length 12;
; Best Local Similarity 100.0%; Pred. No. 1.4e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2740 TCAATTAAT 2749
; Db 2 TCAATTAAT 11
;
; RESULT 359
; abh94141/c
; TOIG Of: abh94141 check: 5752 from: 1 to: 12
;
; ID ABH94141 standard; DNA; 12 BP.
; XX
; AC ABH94141;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 294134 for detecting SNP TSC0015968.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PT methylation status -
; XX
; CC Claim 1; SEQ ID 294134; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) -
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
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; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 1 C; 2 G; 4 T; 0 other;
;
; ABH94141 Length: 12 September 17, 2003 14:26 Type: N Check: 5752 ..
; abh94141
;
; Query Match 50.0%; Score 10; DB 1; Length 12;
; Best Local Similarity 100.0%; Pred. No. 1.4e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2744 TAAATTCCT 2753
; Db 10 TAAATTCCT 1
;
; RESULT 360
; abh99102/c
; TOIG Of: abh99102 check: 5767 from: 1 to: 12
;
; ID ABH99102 standard; DNA; 12 BP.
; XX
; AC ABH99102;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 299095 for detecting SNP TSC0018429.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PE 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PT methylation status -
; XX
; CC Claim 1; SEQ ID 299095; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
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Sequence 12 BP; 6 A; 0 C; 2 G; 4 T; 0 other;
ABH99102 Length: 12 September 17, 2003 14:26 Type: N Check: 5767 ..
abH99102

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2746 AATATCTTTT 2755
|||||
Db 11 AATATCTTTT 2

RESULT 361
ab102555
TOIG of: ab102555 check: 5588 from: 1 to: 12
ID AB102555 standard; DNA; 12 BP.
XX
AC AB102555;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 302528 for detecting SNP TSC0020049.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIDENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI WPI; 2001-65717/75.
XX
DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
PS Claim 1; SEQ ID 302528; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 8 A; 1 C; 0 G; 3 T; 0 other;
AB102555 Length: 12 September 17, 2003 14:26 Type: N Check: 5588 ..

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATATAATTC 2751
|||||
Db 3 AATATAATTC 12

RESULT 362
ab103540/c
TOIG of: ab103540 check: 5949 from: 1 to: 12
ID AB103540 standard; DNA; 12 BP.
XX
AC AB103540;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 303513 for detecting SNP TSC0020511.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PE 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIDENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PI WPI; 2001-65717/75.
XX
DR Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
PS Claim 1; SEQ ID 303513; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB182073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 6 A; 0 C; 1 G; 5 T; 0 other;
ab103540 Length: 12 September 17, 2003 14:26 Type: N Check: 5949 ..

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2745 AATATCTTTT 2754
|||||
Db 10 AATATCTTTT 1
RESULT 363
ab106132/c

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; TOIG of: ab106132 check: 5961 from: 1 to: 12
; ID AB106132 standard; DNA; 12 BP.
; XX AB106132;
; AC AB106132;
; XX 22-FEB-2002 (first entry)
; DT
; OS Oligonucleotide primer SEQ ID NO 306105 for detecting SNP TSC0021806.
; DE SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 306105; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 0 C; 1 G; 6 T; 0 other;
; AB106132 Length: 12 September 17, 2003 14:26 Type: N Check: 5961 ..
; ab106132
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2745 AAAATCTTT 2754
DB 12 AAAATCTTT 3
RESULT 364
ab106225/c
; TOIG of: ab106225 check: 5832 from: 1 to: 12
; ID AB106225 standard; DNA; 12 BP.
; XX
; AC AB106225;
; XX
; DT 22-FEB-2002 (first entry)
; OS Homo sapiens.

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; DE Oligonucleotide primer SEQ ID NO 306198 for detecting SNP TSC0021860.
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.
; OS
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 306198; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC ABH00010-ABH2073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 2 A; 0 C; 3 G; 7 T; 0 other;
; AB106225 Length: 12 September 17, 2003 14:26 Type: N Check: 5832 ..
; ab106225
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2739 CTCATAAAA 2748
DB 11 CTCATAAAA 2
RESULT 365
ab108337
; TOIG of: ab108337 check: 5718 from: 1 to: 12
; ID AB108337 standard; DNA; 12 BP.
; XX
; AC AB108337;
; XX
; DT 22-FEB-2002 (first entry)
; OS Oligonucleotide primer SEQ ID NO 308310 for detecting SNP TSC0022947.
; DE SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX Homo sapiens.

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; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 308310; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
;
; ABI08337 Length: 12 September 17, 2003 14:26 Type: N Check: 5718 ..
;
; ab108337
;
; Query Match 50.0%; Score 10; DB 1; Length 12;
; Best Local Similarity 100.0%; Pred. No. 1.4e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2741 CAATTAATAAT 2750
; Db 1 CAATTAATAAT 10
;
; RESULT 366
; ab111210/c
; TOIG of: ab111210 check: 6162 from: 1 to: 12
;
; ID AB111210 standard; DNA; 12 BP.
; AC
; AB111210;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 311183 for detecting SNP TSC0024345.
; XX
; SNF, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX

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; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 311183; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 3 A; 0 C; 1 G; 8 T; 0 other;
;
; ab111210 Length: 12 September 17, 2003 14:26 Type: N Check: 6162 ..
;
; ab111210
;
; Query Match 50.0%; Score 10; DB 1; Length 12;
; Best Local Similarity 100.0%; Pred. No. 1.4e+02;
; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
;
; QY 2741 CAATTAATAAT 2750
; Db 11 CAATTAATAAT 2
;
; RESULT 367
; ab112839/c
; TOIG of: ab112839 check: 5975 from: 1 to: 12
;
; ID AB112839 standard; DNA; 12 BP.
; AC
; AB112839;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 312812 for detecting SNP TSC0025319.
; XX
; SNF, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS
; Homo sapiens.
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; DR WPI: 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine

```

```
PT methylation status -
XX
PS Claim 1; SEQ ID 312812; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcl_sequences.
XX
SQ Sequence 12 BP; 2 A; 0 C; 3 G; 7 T; 0 other;
AB112839 Length: 12 September 17, 2003 14:26 Type: N Check: 5975 ..
ab112839

Query Match
Best local Similarity 50.0%; Score 10; DB 1; Length 12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATATAA 2748
DB 11 CTCATATATAA 2

RESULT 368
ab116006/c
TOIG of: ab116006 check: 5753 from: 1 to: 12
ID AB116006 standard; DNA; 12 BP.
XX
AC AB116006;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 315979 for detecting SNP TSC0027214.
XX
KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPig-) EPIGENOMICS AG.
XX
PI Olek A, Plepenbrock C, Berlin K;
XX
DR WPI: 2001-657177/5.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 315979; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
```

```
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcl_sequences.
XX
SQ Sequence 12 BP; 2 A; 0 C; 4 G; 6 T; 0 other;
AB116006 Length: 12 September 17, 2003 14:26 Type: N Check: 5753 ..
ab116006

Query Match
Best local Similarity 50.0%; Score 10; DB 1; Length 12;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2739 CTCATATATAA 2748
DB 10 CTCATATATAA 1

RESULT 369
ab120807
TOIG of: ab120807 check: 5650 from: 1 to: 12
ID AB120807 standard; DNA; 12 BP.
XX
AC AB120807;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 320780 for detecting SNP TSC0029876.
XX
KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPig-) EPIGENOMICS AG.
XX
PI Olek A, Plepenbrock C, Berlin K;
XX
DR WPI: 2001-657177/5.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status -
XX
PS Claim 1; SEQ ID 320780; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC AB100010-AB182073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pcl_sequences.
```

```

; XX Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other:
; SO
; ABI20807 Length: 12 September 17, 2003 14:26 Type: N Check: 5650 ..
abi20807

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATAAAATT 2750
DB 3 CAATAAAATT 12

RESULT 370
abi20916/c
; TOIG of: abi20916 check: 5903 from: 1 to: 12
; ID ABI20916 standard; DNA; 12 BP.
; XX
; AC ABI20916;
; XX
; DF 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 320889 for detecting SNP TSC0029948.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIDENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 320889; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SO Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other:
; ABI20916 Length: 12 September 17, 2003 14:26 Type: N Check: 5903 ..
abi20916

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 372
```

```

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2740 TCAATAAAAT 2749
DB 10 TCAATAAAAT 1

RESULT 371
abi21877
; TOIG of: abi21877 check: 5492 from: 1 to: 12
; ID ABI21877 standard; DNA; 12 BP.
; XX
; AC ABI21877;
; XX
; DF 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 321850 for detecting SNP TSC0030531.
; XX
; KW SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIDENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 321850; 29pp + Sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SO Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other:
; ABI21877 Length: 12 September 17, 2003 14:26 Type: N Check: 5492 ..
abi21877

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2742 AATATAATTC 2751
DB 1 AATATAATTC 10

RESULT 372
```

```

ab121903/c
; TOIG of: ab121903 check: 5927 from: 1 to: 12
; ID AB121903 standard; DNA; 12 BP.
; XX
; AC AB121903;
; XX
; DT 22-FEB-2002 (first entry)
; DE
; DE Oligonucleotide primer SEQ ID NO 321876 for detecting SNP TSC0030538.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS
; PS Claim 1: SEQ ID 321876; 29pp + sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SO Sequence 12 BP; 4 A; 0 C; 2 G; 6 T; 0 other;
; AB121903 Length: 12 September 17, 2003 14:26 Type: N Check: 5927 ..
ab121903

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAATTC 2751
DB 10 AATAAATTC 1

RESULT 373
ab122339/c
; TOIG of: ab122339 check: 5994 from: 1 to: 12
; ID AB122339 standard; DNA; 12 BP.
; XX
; AC AB122339;
; XX
; DT 22-FEB-2002 (first entry)
; OS Homo sapiens.

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```

; XX
; DE Oligonucleotide primer SEQ ID NO 322312 for detecting SNP TSC0030794.
; XX
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS
; PS Claim 1: SEQ ID 322312; 29pp + sequence listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SO Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;
; AB122339 Length: 12 September 17, 2003 14:26 Type: N Check: 5994 ..
ab122339

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAATTC 2751
DB 11 AATAAATTC 2

RESULT 374
ab122468
; TOIG of: ab122468 check: 5316 from: 1 to: 12
; ID AB122468 standard; DNA; 12 BP.
; XX
; AC AB122468;
; XX
; DT 22-FEB-2002 (first entry)
; OS Homo sapiens.
; DE Oligonucleotide primer SEQ ID NO 322441 for detecting SNP TSC0030876.
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.

```

```

; XX      WO200177384-A2.
; PN
; XX      18-OCT-2001.
; PD
; XX      06-APR-2001; 2001WO-IB00713.
; PR
; XX      07-APR-2000; 2000DE-1019173.
; PA      (EPIG-) EPIGENOMICS AG.
; XX
; PI      Olek A, Piepenbrock C, Berlin K;
; PS      WPI; 2001-657177/75.
; DR
; XX      Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT      designed to detect single nucleotide polymorphisms and cytosine
; PT      methylation status
; XX
; PS      Claim 1; SEQ ID 322441; 29pp + Sequence Listing; German.
; XX
; CC      This invention describes novel oligonucleotide primers or peptide nucleic
; CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC      and cytosine methylation status in chemically pretreated genomic DNA. The
; CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC      range of diseases including immune system, gastrointestinal, respiratory,
; CC      central nervous system, cardiovascular and metabolic disorders. The
; CC      oligomers are also used for detecting cell type differentiation.
; CC      ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC      ABI00010-ABI82073 represent the oligomers described in the invention.
; CC      NOTE: The sequence data for this patent did not form part of the printed
; CC      specification, but was obtained in electronic format from WIPO at
; CC      ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX      Sequence 12 BP; 7 A; 3 C; 0 G; 2 T; 0 other;
; SQ
; AB122468 Length: 12 September 17, 2003 14:26 Type: N Check: 5316 ..
; AB122468

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2739 CTCATATATAA 2748
        |||||||
Db      3 CTCATATATAA 12

RESULT 375
ab123067
; TOIG of: ab123067 check: 5291 from: 1 to: 12
; ID      AB123067 standard; DNA; 12 BP.
; XX
; AC      AB123067;
; XX
; DE      22-FEB-2002 (first entry)
; XX
; OS      Oligonucleotide primer SEQ ID NO 323040 for detecting SNP TSC0031190.
; PN
; XX      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW      central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS      Homo sapiens.
; PN
; XX      WO200177384-A2.
; PD
; XX      18-OCT-2001.
; PI
; XX      06-APR-2001; 2001WO-IB00713.
; PR
; XX      07-APR-2000; 2000DE-1019173.
; PA
```

```

; XX      (EPIG-) EPIGENOMICS AG.
; PN
; XX      Olek A, Piepenbrock C, Berlin K;
; PI
; PS      WPI; 2001-657177/75.
; DR
; XX      Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT      designed to detect single nucleotide polymorphisms and cytosine
; PT      methylation status
; XX
; PS      Claim 1; SEQ ID 323040; 29pp + Sequence Listing; German.
; XX
; CC      This invention describes novel oligonucleotide primers or peptide nucleic
; CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC      and cytosine methylation status in chemically pretreated genomic DNA. The
; CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC      range of diseases including immune system, gastrointestinal, respiratory,
; CC      central nervous system, cardiovascular and metabolic disorders. The
; CC      oligomers are also used for detecting cell type differentiation.
; CC      ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC      ABI00010-ABI82073 represent the oligomers described in the invention.
; CC      NOTE: The sequence data for this patent did not form part of the printed
; CC      specification, but was obtained in electronic format from WIPO at
; CC      ftp.wipo.int/pub/published_pct_sequences.
; CC
; XX      Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; SQ
; AB123067 Length: 12 September 17, 2003 14:26 Type: N Check: 5291 ..
; AB123067

Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2739 CTCATATATAA 2748
        |||||||
Db      2 CTCATATATAA 11

RESULT 376
ab127009
; TOIG of: ab127009 check: 5230 from: 1 to: 12
; ID      AB127009 standard; DNA; 12 BP.
; XX
; AC      AB127009;
; XX
; DE      22-FEB-2002 (first entry)
; XX
; OS      Oligonucleotide primer SEQ ID NO 326982 for detecting SNP TSC0033390.
; PN
; XX      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW      central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS      Homo sapiens.
; PN
; XX      WO200177384-A2.
; PD
; XX      18-OCT-2001.
; PI
; XX      06-APR-2001; 2001WO-IB00713.
; PR
; XX      07-APR-2000; 2000DE-1019173.
; PA      (EPIG-) EPIGENOMICS AG.
; PN
; XX      Olek A, Piepenbrock C, Berlin K;
; PI
; PS      WPI; 2001-657177/75.
; DR
; XX      Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT
```

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; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS Claim 1; SEQ ID 326982; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 8 A; 2 C; 0 G; 2 T; 0 other;
; AB127009 Length: 12 September 17, 2003 14:26 Type: N Check: 5230 ..
; ab127009

Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2739 CTCATTAATA 2748
        |||||
        1 CTCATTAATA 10

Db
RESULT 377
ab136719
; TOIG of: ab136719 check: 5606 from: 1 to: 12
; ID AB136719 standard; DNA; 12 BP.
; XX
; AC AB136719;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; OS Oligonucleotide primer SEQ ID NO 336692 for detecting SNP TSC0039465.
; DE
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 336692; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The

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; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 1 C; 0 G; 4 T; 0 other;
; AB16719 Length: 12 September 17, 2003 14:26 Type: N Check: 5606 ..
; ab16719

Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2740 TCAATTAAT 2749
        |||||
        1 TCAATTAAT 10

Db
RESULT 378
ab138338
; TOIG of: ab138338 check: 5681 from: 1 to: 12
; ID AB138338 standard; DNA; 12 BP.
; XX
; AC AB138338;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; OS Oligonucleotide primer SEQ ID NO 338311 for detecting SNP TSC0008393.
; DE
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPIG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 338311; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at

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CC ftp.wipo.int/pub/published_pct_sequences.
XX Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
AB138338 Length: 12 September 17, 2003 14:26 Type: N Check: 5681 ..
ab138338

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2743 AATAAATCTC 2752
DB 2 AATAAATCTC 11

RESULT 379
ab139707
TOIG of: ab139707 check: 6019 from: 1 to: 12
ID AB139707 standard; DNA; 12 BP.
XX
XX AB139707;
AC
XX
XX 22-FEB-2002 (first entry)
DE
XX Oligonucleotide primer SEQ ID NO 339680 for detecting SNP TSC0041134.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX OS
XX WO200177384-A2.
XX PN
XX 18-OCT-2001.
XX PD
XX 06-APR-2001; 2001WO-IB00713.
XX PF
XX 07-APR-2000; 2000DE-1019173.
XX PR
XX (EPIC-) EPIGENOMICS AG.
XX PA
XX Olek A, Piepenbrock C, Berlin K;
XX PI
XX WPI; 2001-657177/75.
XX DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status -
XX PS
XX Claim 1; SEQ ID 339680; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB12073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
SQ
AB139707 Length: 12 September 17, 2003 14:26 Type: N Check: 6019 ..
ab139707

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATAAATTC 2751
DB 10 AATAAATTC 1
```

```
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2745 AAAATCTTT 2754
DB 3 AAAATCTTT 12

RESULT 380
ab139804/c
TOIG of: ab139804 check: 6292 from: 1 to: 12
ID AB139804 standard; DNA; 12 BP.
XX
XX AB139804;
AC
XX
XX 22-FEB-2002 (first entry)
DE
XX Oligonucleotide primer SEQ ID NO 339777 for detecting SNP TSC005894.
XX
XX SNP: single nucleotide polymorphism; human; diagnosis: PNA; cancer: CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer: ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX OS
XX WO200177384-A2.
XX PN
XX 18-OCT-2001.
XX PD
XX 06-APR-2001; 2001WO-IB00713.
XX PF
XX 07-APR-2000; 2000DE-1019173.
XX PR
XX (EPIC-) EPIGENOMICS AG.
XX PA
XX Olek A, Piepenbrock C, Berlin K;
XX PI
XX WPI; 2001-657177/75.
XX DR
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single nucleotide polymorphisms and cytosine
XX PT methylation status -
XX PS
XX Claim 1; SEQ ID 339777; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX CC AB100010-AB12073 represent the oligomers described in the invention.
XX CC NOTE: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format from WIPO at
XX CC ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 12 BP; 3 A; 0 C; 1 G; 8 T; 0 other;
SQ
ab139804 Length: 12 September 17, 2003 14:26 Type: N Check: 6292 ..
ab139804

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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RESULT 381
abi45065/c
; TOIG of: abi45065 check: 5946 from: 1 to: 12
; ID ABI45065 standard; DNA: 12 BP.
; XX
; AC ABI45065;
; XX
; DT 22-FEB-2002 (first entry)
; DE
; XX Oligonucleotide primer SEQ ID NO 345038 for detecting SNP TSC0043841.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX MO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIDENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX
; XX MPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; XX Claim 1: SEQ ID 345038; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; XX Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;
; SQ
; AB145065 Length: 12 September 17, 2003 14:26 Type: N Check: 5946 ..
abi45065
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2740 TCATATAAT 2749 *
Db 12 TCATATAAT 3

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; DT 22-FEB-2002 (first entry)
; XX
; XX Oligonucleotide primer SEQ ID NO 345595 for detecting SNP TSC0044109.
; DE
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX MO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIDENOMICS AG.
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; XX
; XX MPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; XX Claim 1: SEQ ID 345595; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; XX Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other;
; SQ
; AB145522 Length: 12 September 17, 2003 14:26 Type: N Check: 6143 ..
abi45622
Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2741 CAATATAAT 2750
Db 11 CAATATAAT 2

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RESULT 382
abi45622/c
; TOIG of: abi45622 check: 6143 from: 1 to: 12
; ID ABI45622 standard; DNA: 12 BP.
; XX
; AC ABI45622;
; XX
; DE 22-FEB-2002 (first entry)
; XX
; XX Oligonucleotide primer SEQ ID NO 348095 for detecting SNP TSC0000614.
; KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX

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; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; PD
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPIG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 348095; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC AB000010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 12 BP; 8 A; 1 C; 0 G; 3 T; 0 other:
; SO
; AB148122 Length: 12 September 17, 2003 14:26 Type: N Check: 5509
; ab148122

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATAAAATT 2750
Db 1 CAATAAAATT 10

RESULT 384
ab152402/c
; TOIG of: ab152402 check: 5884 from: 1 to: 12
; ID AB152402 standard; DNA; 12 BP.
; AC
; XX AB152402;
; AC
; XX 22-FEB-2002 (first entry)
; DT
; XX
; XX Oligonucleotide primer SEQ ID NO 352375 for detecting SNP TSC0047846.
; DE
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; PD
; PF 06-APR-2001; 2001WO-IB00713.
; PR
; XX

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; PR 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status.
; XX
; PS Claim 1; SEQ ID 352375; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pcl_sequences.
; CC
; XX Sequence 12 BP; 4 A; 0 C; 1 G; 7 T; 0 other:
; SO
; AB152402 Length: 12 September 17, 2003 14:26 Type: N Check: 5884
; ab152402

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2740 TCAATAAAAT 2749
Db 10 TCAATAAAAT 1

RESULT 385
ab152976
; TOIG of: ab152976 check: 5623 from: 1 to: 12
; ID AB152976 standard; DNA; 12 BP.
; AC
; XX AB152976;
; AC
; XX 22-FEB-2002 (first entry)
; DT
; XX
; XX Oligonucleotide primer SEQ ID NO 352949 for detecting SNP TSC0048193.
; DE
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; PD
; PF 06-APR-2001; 2001WO-IB00713.
; PR
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX (EPIG-) EPIGENOMICS AG.
; PA
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; XX
; XX

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```

; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1: SEQ ID 352949; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp://ipo.int/pub/publ/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
;
; AB152976 Length: 12 September 17, 2003 14:26 Type: N Check: 5623 ..
; AB152976
;
Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2743 ATAAATTCCT 2752
        |||||||||
        1 ATAAATTCCT 10

Db
RESULT 386
AB156661/c
TOIG of: AB156661 check: 6112 from: 1 to: 12
;
; ID AB156661 standard; DNA; 12 BP.
; AC AB156661;
; DT 22-FEB-2002 (first entry)
; DE
; XX
; XX Oligonucleotide primer SEQ ID NO 356634 for detecting SNP TSC0050230.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Plepenbrock C, Berlin K;
; XX
; XX WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status
; XX
; PS Claim 1: SEQ ID 356634; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

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; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp://ipo.int/pub/publ/published_pct_sequences.
; CC
; SQ Sequence 12 BP; 3 A; 0 C; 1 G; 8 T; 0 other;
;
; AB156661 Length: 12 September 17, 2003 14:26 Type: N Check: 6112 ..
; AB156661
;
Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2740 TCAATTAAT 2749
        |||||||||
        10 TCAATTAAT 1

Db
RESULT 387
AB156930/c
TOIG of: AB156930 check: 5909 from: 1 to: 12
;
; ID AB156930 standard; DNA; 12 BP.
; AC AB156930;
; DT 22-FEB-2002 (first entry)
; DE
; XX
; XX Oligonucleotide primer SEQ ID NO 356903 for detecting SNP TSC0050367.
; XX
; XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; XX WO200177384-A2.
; XX
; XX 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; XX
; XX 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIC-) EPIGENOMICS AG.
; XX
; XX Olek A, Plepenbrock C, Berlin K;
; XX
; XX WPI; 2001-657177/75.
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; XX designed to detect single nucleotide polymorphisms and cytosine
; XX methylation status
; XX
; PS Claim 1: SEQ ID 356903; 29pp + Sequence Listing; German.
; CC
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABH00010-ABH82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed

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CC - specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 2 A; 0 C; 3 G; 7 T; 0 other;
; AB156930 Length: 12 September 17, 2003 14:26 Type: N Check: 5909
ab156930

Query Match
Best Local Similarity 50.0%; Score 10; DB 1; Length 12;
Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2739 CTCATATAAA 2748
DB 10 CTCATATAAA 1

RESULT 388
ab157374
; TOIG of: ab157374 check: 5698 from: 1 to: 12
; ID AB157374 standard; DNA; 12 BP.
; XX
; AC AB157374;
; XX
; DT 22-FEB-2002 (first entry)
; DE
; OS Oligonucleotide primer SEQ ID NO 357347 for detecting SNP TSC0050572.
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI, 2001-657177/75.
; XX
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 357347; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;
; AB157374 Length: 12 September 17, 2003 14:26 Type: N Check: 5698
ab157374
```

```
Query Match
Best Local Similarity 50.0%; Score 10; DB 1; Length 12;
Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2743 ATAAATTCCT 2752
DB 2 ATAAATTCCT 11

RESULT 389
ab158171/c
; TOIG of: ab158171 check: 5886 from: 1 to: 12
; ID AB158171 standard; DNA; 12 BP.
; XX
; AC AB158171;
; XX
; DT 22-FEB-2002 (first entry)
; DE
; OS Oligonucleotide primer SEQ ID NO 358144 for detecting SNP TSC0050972.
; SNF: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; PE
; PF 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIG-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI, 2001-657177/75.
; XX
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 358144; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB12073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 5 A; 0 C; 1 G; 6 T; 0 other;
; AB158171 Length: 12 September 17, 2003 14:26 Type: N Check: 5886
ab158171

Query Match
Best Local Similarity 50.0%; Score 10; DB 1; Length 12;
Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2743 ATAAATTCCT 2752
DB 11 ATAAATTCCT 2
```

```

RESULT 390
ab159718
; TOIG of: ab159718 check: 5533 from: 1 to: 12
; ID AB159718 standard; DNA; 12 BP.
; XX AB159718;
; AC
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 359691 for detecting SNP TSC0004559.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001MO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 359691; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 7 A; 2 C; 0 G; 3 T; 0 other;
; AB159718 Length: 12 September 17, 2003 14:26 Type: N Check: 5533 ..
ab159718

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2741 CAATTAATTC 2750
Db 1 CAATTAATTC 10

RESULT 391
ab162539
; TOIG of: ab162539 check: 5529 from: 1 to: 12
; ID AB162539 standard; DNA; 12 BP.
; XX
; AC AB162539;
; KW
; KM

```

```

; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 362512 for detecting SNP TSC0053272.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001MO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PA (EPiG-) EPIGENOMICS AG.
; XX
; PI Olek A, Plepenbrock C, Berlin K;
; XX
; DR WPI; 2001-657177/75.
; XX
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 362512; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989 and
; CC ABH00010-ABH99989 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 8 A; 1 C; 0 G; 3 T; 0 other;
; AB162539 Length: 12 September 17, 2003 14:26 Type: N Check: 5529 ..
ab162539

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2742 AATTAATTC 2751
Db 2 AATTAATTC 11

RESULT 392
ab162540
; TOIG of: ab162540 check: 5601 from: 1 to: 12
; ID AB162540 standard; DNA; 12 BP.
; XX
; AC AB162540;
; XX
; DT 22-FEB-2002 (first entry)
; XX
; DE Oligonucleotide primer SEQ ID NO 362513 for detecting SNP TSC0053272.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
; KW

```

```

; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PE
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-65717/75.
; PS
; XX
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; PS
; XX
; XX Claim 1; SEQ ID 362513; 29pp + Sequence Listing; German.
; PS
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; XX Sequence 12 BP; 7 A; 1 C; 1 G; 3 T; 0 other;
; SQ
; AB162540 Length: 12 September 17, 2003 14:26 Type: N Check: 5601 ..
; ab162540

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2742 AATAAAATTC 2751
    |||||||
Db 2 AATAAAATTC 11

RESULT 393
ab163588/c
; TOIG of: ab163588 check: 5843 from: 1 to: 12
; ID AB163588 standard; DNA; 12 BP.
; AC AB163588;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX Oligonucleotide primer SEQ ID NO 363561 for detecting SNP TSC0053940.
; DE
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PE
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-65717/75.
; PS
```

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; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; XX
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-65717/75.
; PS
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; XX Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;
; SQ
; AB163588 Length: 12 September 17, 2003 14:26 Type: N Check: 5843 ..
; ab163588

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2739 CTCATATMAA 2748
    |||||||
Db 10 CTCATATMAA 1

RESULT 394
ab165717
; TOIG of: ab165717 check: 5496 from: 1 to: 12
; ID AB165717 standard; DNA; 12 BP.
; AC AB165717;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX Oligonucleotide primer SEQ ID NO 365690 for detecting SNP TSC0055270.
; DE
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; XX Homo sapiens.
; OS
; XX
; XX WO200177384-A2.
; PN
; XX
; XX 18-OCT-2001.
; PD
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PE
; XX
; XX 07-APR-2000; 2000DE-1019173.
; PR
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI; 2001-65717/75.
; PS
```

```

; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; PS Claim 1; SEQ ID 365690; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 8 A; 1 C; 0 G; 3 T; 0 other;
;
; ABI65717 Length: 12 September 17, 2003 14:26 Type: N Check: 5496 ..
; abi65717
Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY      2740 TCAATTAAT 2749
DB      3 TCAATTAAT 12

RESULT 395
abi65810
; TOIG of: abi65810 check: 5553 from: 1 to: 12
; ID ABI65810 standard; DNA; 12 BP.
; AC
; AB165810;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 365783 for detecting SNP TSC0055339.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; XX Claim 1; SEQ ID 365783; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic

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; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 6 A; 1 C; 0 G; 5 T; 0 other;
;
; ABI65810 Length: 12 September 17, 2003 14:26 Type: N Check: 5553 ..
; abi65810
Query Match      50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY      2740 TCAATTAAT 2749
DB      3 TCAATTAAT 12

RESULT 396
abi67120/c
; TOIG of: abi67120 check: 5999 from: 1 to: 12
; ID ABI67120 standard; DNA; 12 BP.
; AC
; AB167120;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 367093 for detecting SNP TSC0056150.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD
; PD 18-OCT-2001.
; PE 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; XX
; PI Olek A, Piepenbrock C, Berlin K;
; XX
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status
; XX
; XX Claim 1; SEQ ID 367093; 29pp + Sequence Listing; German.
; XX
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABR00010-ABR99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.

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CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 4 A; 0 C; 2 G; 6 T; 0 other;
; AB167120 Length: 12 September 17, 2003 14:26 Type: N Check: 5999 ..
; ab167120

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2743 ATAAATCT 2752
|||||
DB 12 ATAAATCT 3

RESULT 397
ab170539
TOIG of: ab170539 check: 5899 from: 1 to: 12

ID AB170539 standard; DNA; 12 BP.
AC AB170539;
XX
XX 22-FEB-2002 (first entry)
DE Oligonucleotide primer SEQ ID NO 370512 for detecting SNP TSC0058220.
XX
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI: 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX
PS Claim 1; SEQ ID 370512; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 12 BP; 5 A; 1 C; 0 G; 6 T; 0 other;
; SQ
; AB170539 Length: 12 September 17, 2003 14:26 Type: N Check: 5899 ..
; ab170539

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2746 AAATCTTT 2755
|||||
DB 1 AAATCTTT 10

RESULT 398
ab172351
TOIG of: ab172351 check: 5480 from: 1 to: 12

ID AB172351 standard; DNA; 12 BP.
AC AB172351;
XX
XX 22-FEB-2002 (first entry)
DE Oligonucleotide primer SEQ ID NO 372324 for detecting SNP TSC0059316.
XX
XX
XX SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB00713.
XX
XX 07-APR-2000; 2000DE-1019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI: 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status -
XX
XX
PS Claim 1; SEQ ID 372324; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
XX AB100010-AB182073 represent the oligomers described in the invention.
XX NOTE: The sequence data for this patent did not form part of the printed
XX specification, but was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences.
XX
XX Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
; SQ
; AB172351 Length: 12 September 17, 2003 14:26 Type: N Check: 5480 ..
; ab172351

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2740 TCAATAAAT 2749
|||||
DB 2 TCAATAAAT 11

```

RESULT 399
ab175344
; TOIG of: ab175344 check: 5516 from: 1 to: 12
; ID AB175344 standard; DNA; 12 BP.
; AC AB175344;
; XX
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX
; DE Oligonucleotide primer SEQ ID NO 375317 for detecting SNP TSC0061199.
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 375317; 29pp + Sequence Listing; German.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pctl_sequences.
; XX
; XX Sequence 12 BP; 6 A; 3 C; 0 G; 3 T; 0 other;
; SQ
; AB175344 Length: 12 September 17, 2003 14:26 Type: N Check: 5516 ..
ab175344

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2742 AATTAATTC 2751
Db 1 AATTAATTC 10

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; AC AB175514;
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX
; XX Oligonucleotide primer SEQ ID NO 375487 for detecting SNP TSC0061286.
; DE
; XX
; XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; PD 18-OCT-2001.
; XX
; XX 06-APR-2001; 2001WO-IB00713.
; PR 07-APR-2000; 2000DE-1019173.
; XX
; XX (EPIG-) EPIGENOMICS AG.
; PA
; XX Olek A, Piepenbrock C, Berlin K;
; PI
; XX WPI: 2001-657177/75.
; DR
; XX Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1: SEQ ID 375487; 29pp + Sequence Listing; German.
; XX
; XX This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC ABI00010-ABI82073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pctl_sequences.
; XX
; XX Sequence 12 BP; 3 A; 0 C; 1 G; 8 T; 0 other;
; SQ
; AB175514 Length: 12 September 17, 2003 14:26 Type: N Check: 6222 ..
ab175514

Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2742 AATTAATTC 2751
Db 11 AATTAATTC 2

RESULT 401
ab178489
; TOIG of: ab178489 check: 5627 from: 1 to: 12
; ID AB178489 standard; DNA; 12 BP.
; AC AB178489;
; XX
; XX
; XX 22-FEB-2002 (first entry)
; DT
; XX
; DE Oligonucleotide primer SEQ ID NO 378462 for detecting SNP TSC0062787.
; XX
; KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

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```

; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; PS WPI; 2001-657177/75.
; DR
; PT Set of oligonucleotides, useful for diagnosis and cell typing, is
; PT designed to detect single nucleotide polymorphisms and cytosine
; PT methylation status -
; XX
; PS Claim 1; SEQ ID 378462; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 8 A; 1 C; 0 G; 3 T; 0 other;
; AB178489 Length: 12 September 17, 2003 14:26 Type: N Check: 5627 ..
; ab178489

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Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CATAAAATT 2750
Db 3 CATAAAATT 12

RESULT 402
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; ID AB179494 standard; DNA; 12 BP.
; XX
; AC AB179494;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 379467 for detecting SNP TSC0063301.
; XX
; SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX

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; PF 06-APR-2001; 2001WO-IB00713.
; XX
; PR 07-APR-2000; 2000DE-1019173.
; XX
; PN (EPIC-) EPIGENOMICS AG.
; XX
; PD Olek A, Piepenbrock C, Berlin K;
; XX
; PF WPI; 2001-657177/75.
; XX
; PR Set of oligonucleotides, useful for diagnosis and cell typing, is
; PR designed to detect single nucleotide polymorphisms and cytosine
; PR methylation status -
; XX
; PS Claim 1; SEQ ID 379467; 29pp + Sequence Listing; German.
; CC This invention describes novel oligonucleotide primers or peptide nucleic
; CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
; CC and cytosine methylation status in chemically pretreated genomic DNA. The
; CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
; CC range of diseases including immune system, gastrointestinal, respiratory,
; CC central nervous system, cardiovascular and metabolic disorders. The
; CC oligomers are also used for detecting cell type differentiation.
; CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
; CC AB100010-AB182073 represent the oligomers described in the invention.
; CC NOTE: The sequence data for this patent did not form part of the printed
; CC specification, but was obtained in electronic format from WIPO at
; CC ftp.wipo.int/pub/published_pct_sequences.
; XX
; SQ Sequence 12 BP; 6 A; 2 C; 0 G; 4 T; 0 other;
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Query Match 50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CATAAAATT 2750
Db 1 CATAAAATT 10

RESULT 403
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; ID AB179687 standard; DNA; 12 BP.
; XX
; AC AB179687;
; XX
; DT 22-FEB-2002 (first entry)
; DE Oligonucleotide primer SEQ ID NO 379660 for detecting SNP TSC0008634.
; XX
; SNF; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
; KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
; KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
; XX
; OS Homo sapiens.
; XX
; PN WO200177384-A2.
; XX
; PD 18-OCT-2001.
; XX
; PF 06-APR-2001; 2001WO-IB00713.
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; PR 07-APR-2000; 2000DE-1019173.
; PA (EPIC-) EPIGENOMICS AG.
; PI Olek A, Piepenbrock C, Berlin K;
; XX

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DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single nucleotide polymorphisms and cytosine
PT methylation status
XX
PS Claim 1; SEQ ID 379660; 29pp + Sequence Listing; German.
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 2 A; 0 C; 2 G; 8 T; 0 other;
AB179687 Length: 12 September 17, 2003 14:26 Type: N Check: 5988
ab179687

Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2739 CTCATATATAA 2748
DB 11 CTCATATATAA 2

RESULT 404
ab180367/c
TOIG of: ab180367 check: 5658 from: 1 to: 12
ID AB180367 standard; DNA; 12 BP.
XX
AC AB180367;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 380340 for detecting SNP TSC0063781.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PS WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
PS Claim 1; SEQ ID 380340; 29pp + Sequence Listing; German.
XX
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CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation.
CC ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
CC ABH00010-ABH82073 represent the oligomers described in the invention.
CC NOTE: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 12 BP; 7 A; 0 C; 1 G; 4 T; 0 other;
AB180367 Length: 12 September 17, 2003 14:26 Type: N Check: 5658
ab180367

Query Match          50.0%; Score 10; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2744 TAAATTCCT 2753
DB 10 TAAATTCCT 1

RESULT 405
ab181874/c
TOIG of: ab181874 check: 6126 from: 1 to: 12
ID AB181874 standard; DNA; 12 BP.
XX
AC AB181874;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 381847 for detecting SNP TSC0064580.
XX
KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-IB00713.
XX
PR 07-APR-2000; 2000DE-1019173.
XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
PS WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single nucleotide polymorphisms and cytosine
XX methylation status
XX
PS Claim 1; SEQ ID 381847; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX ABC00010-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and
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; CC ABI00010-ABI82073 represent the oligomers described in the invention.  
; CC NOTE: The sequence data for this patent did not form part of the printed  
; CC specification, but was obtained in electronic format from WIPO at  
; CC ftp.wipo.int/pub/published_pct_sequences.  
; XX  
; SQ Sequence 12 BP; 3 A; 0 C; 2 G; 7 T; 0 other;  
; ABI81874 Length: 12 September 17, 2003 14:26 Type: N Check: 6126 ..  
abi81874
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Query Match 50.0%; Score 10; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 1.4e+02;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2742 AATPAAATTC 2751

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Db 12 AATPAAATTC 3

Search completed: September 17, 2003, 14:42:42
Job time : 2 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 17, 2003, 16:11:23 ; Search time 0.001 seconds
(without alignments)
1.760 Million cell updates/sec

Title: us-09-898-556a-3

Perfect score: 20

Sequence: 1 gtcataataatcttcttct 20

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 0.5

Searched: 4 seqs, 44 residues

Total number of hits satisfying chosen parameters: 8

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database: rgehits.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	11	55.0	11	1	ax625286
2	11	55.0	11	1	ax632707
3	10	50.0	11	1	ax623029
4	10	50.0	11	1	ax630450
5	6.8	34.0	11	1	ax623029
6	6.8	34.0	11	1	ax630450
7	5.8	29.0	11	1	ax625286
8	5.8	29.0	11	1	ax632707

ALIGNMENTS

RESULT 1
ax625286
TOIG of: ax625286 check: 4751 from: 1 to: 11

LOCUS AX625286 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 2327 from Patent WO02053774.
ACCESSION AX625286
VERSION AX625286.1 GI:28453227

KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
1 Petersohn, D., Conradt, M. and Hofmann, K.
Method for determining homeostasis of the skin

AUTHORS Patent: WO 02053774-A 2327 11-JUL-2002;
JOURNAL Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
LOCATION/Qualifiers
1..11

/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
BASE COUNT 6 a 2 c 0 g 3 t
ORIGIN
AX625286 Length: 11 September 17, 2003 16:03 Type: N Check: 4751 ..

Query Match 55.0%; Score 11; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 0.9;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CAATAAATTC 2751
DB 1 CAATAAATTC 11

RESULT 2
ax632707
TOIG of: ax632707 check: 4751 from: 1 to: 11

LOCUS AX632707 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 9749 from Patent WO02053774.
ACCESSION AX632707
VERSION AX632707.1 GI:28468322

KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
1 Petersohn, D., Conradt, M. and Hofmann, K.
Method for determining homeostasis of the skin

AUTHORS Patent: WO 02053774-A 9749 11-JUL-2002;
JOURNAL Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
LOCATION/Qualifiers
1..11

source /organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

BASE COUNT 6 a 2 c 0 g 3 t
ORIGIN

AX632707 Length: 11 September 17, 2003 16:04 Type: N Check: 4751 ..

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Best Local Similarity 100.0%; Pred. No. 0.9;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2741 CAATAAATTC 2751
DB 1 CAATAAATTC 11

RESULT 3
ax623029
TOIG of: ax623029 check: 4938 from: 1 to: 11

LOCUS AX623029 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 70 from Patent WO02053774.
ACCESSION AX623029
VERSION AX623029.1 GI:28450970

KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.

REFERENCE
1 Petersohn, D., Conradt, M. and Hofmann, K.
Method for determining homeostasis of the skin

AUTHORS Patent: WO 02053774-A 70 11-JUL-2002;
JOURNAL

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; FEATURES      Henkel Kommanditgesellschaft auf Aktien (DE)
;               Location/Qualifiers
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;               /mol_type="genomic DNA"
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Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db      1 CAATTAATTT 10

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; LOCUS      AX630450 11 bp DNA linear PAT 21-FEB-2003
; DEFINITION Sequence 7491 from Patent WO02053774.
; ACCESSION  AX630450
; VERSION    AX630450.1 GI:28458488
; KEYWORDS
; SOURCE     Homo sapiens (human)
; ORGANISM   Homo sapiens
;            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
;            Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
; REFERENCE  1
;            Petersohn,D., Conradt,M. and Hofmann,K.
;            Method for determining homeostasis of the skin
;            Patent: WO 02053774-A 7491 11-JUL-2002;
;            Henkel Kommanditgesellschaft auf Aktien (DE)
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;            /mol_type="genomic DNA"
;            /db_xref="taxon:9606"
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; ORIGIN
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; AX630450 Length: 11 September 17, 2003 16:04 Type: N Check: 4938 ..
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Query Match      50.0%; Score 10; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY      2741 CAATTAATTT 2750
Db      1 CAATTAATTT 10

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RESULT 5
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; DEFINITION Sequence 70 from Patent WO02053774.
; ACCESSION  AX623029
; VERSION    AX623029.1 GI:28450970
; KEYWORDS
; SOURCE     Homo sapiens (human)
; ORGANISM   Homo sapiens
;            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
;            Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
; REFERENCE  1
;

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; AUTHORS      Petersohn,D., Conradt,M. and Hofmann,K.
; TITLE        Method for determining homeostasis of the skin
; JOURNAL      Patent: WO 02053774-A 70 11-JUL-2002;
;             Henkel Kommanditgesellschaft auf Aktien (DE)
; FEATURES     Location/Qualifiers
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;             /organism="Homo sapiens"
;             /mol_type="genomic DNA"
;             /db_xref="taxon:9606"
; BASE COUNT 6 a 1 c 0 g 4 t
; ORIGIN
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Best Local Similarity 80.0%; Pred. No. 6.1;
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
OY      2746 AAATTCCTTT 2755
Db      11 AAATTTATT 2

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; LOCUS      AX630450 11 bp DNA linear PAT 21-FEB-2003
; DEFINITION Sequence 7491 from Patent WO02053774.
; ACCESSION  AX630450
; VERSION    AX630450.1 GI:28458488
; KEYWORDS
; SOURCE     Homo sapiens (human)
; ORGANISM   Homo sapiens
;            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
;            Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
; REFERENCE  1
;            Petersohn,D., Conradt,M. and Hofmann,K.
;            Method for determining homeostasis of the skin
;            Patent: WO 02053774-A 7491 11-JUL-2002;
;            Henkel Kommanditgesellschaft auf Aktien (DE)
; FEATURES   Location/Qualifiers
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;            /organism="Homo sapiens"
;            /mol_type="genomic DNA"
;            /db_xref="taxon:9606"
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; ORIGIN
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; AX630450 Length: 11 September 17, 2003 16:04 Type: N Check: 4938 ..
ax630450
Query Match      34.0%; Score 6.8; DB 1; Length 11;
Best Local Similarity 80.0%; Pred. No. 6.1;
Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
OY      2746 AAATTCCTTT 2755
Db      11 AAATTTATT 2

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RESULT 7
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; LOCUS      AX625286 11 bp DNA linear PAT 21-FEB-2003
; DEFINITION Sequence 2327 from Patent WO02053774.
; ACCESSION  AX625286
; VERSION    AX625286.1 GI:28453227
; KEYWORDS
; SOURCE     Homo sapiens (human)
; ORGANISM   Homo sapiens
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; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
; REFERENCE
; 1
; AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
; TITLE Method for determining homeostasis of the skin
; JOURNAL Patent: WO 02053774-A 2327 11-JUL-2002;
; FEATURES Henkel Kommanditgesellschaft auf Aktien (DE)
; SOURCE Location/Qualifiers
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; /mol_type="genomic DNA"
; /db_xref="taxon:9606"
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; ORIGIN
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; AX625286 Length: 11 September 17, 2003 16:03 Type: N Check: 4751 ..
ax625286

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Query Match 29.0%; Score 5.8; DB 1; Length 11;
Best Local Similarity 77.8%; Pred. No. 7.4;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY 2747 AATTCTTTT 2755
Db 10 AATTCTTTT 2

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RESULT 8
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; TOIG of: ax632707 check: 4751 from: 1 to: 11
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; LOCUS AX632707 11 bp DNA linear PAT 21-FEB-2003
; DEFINITION Sequence 9749 from Patent WO02053774.
; ACCESSION AX632707
; VERSION AX632707.1 GI:28468322
; KEYWORDS
; SOURCE Homo sapiens (human)
; ORGANISM Homo sapiens
; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
; REFERENCE
; 1
; AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
; TITLE Method for determining homeostasis of the skin
; JOURNAL Patent: WO 02053774-A 9749 11-JUL-2002;
; FEATURES Henkel Kommanditgesellschaft auf Aktien (DE)
; SOURCE Location/Qualifiers
; 1. 11
; /organism="Homo sapiens"
; /mol_type="genomic DNA"
; /db_xref="taxon:9606"
; BASE COUNT 6 a 2 c 0 g 3 t
; ORIGIN
;
; AX632707 Length: 11 September 17, 2003 16:04 Type: N Check: 4751 ..
ax632707

```

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Query Match 29.0%; Score 5.8; DB 1; Length 11;
Best Local Similarity 77.8%; Pred. No. 7.4;
Matches 7; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY 2747 AATTCTTTT 2755
Db 10 AATTCTTTT 2

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Search completed: September 17, 2003, 16:11:23
Job time : 0.001 secs

